ABUS
Security Tech Germany

securitycatalogue

The entire world of video surveillance and alarm technology

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Company headquarters ABUS Security-Center in Mühlhausen near Augsburg (Germany)

Partnership redefined: ABUS Security-Center

For millions of people, the ABUS brand stands for „the good feeling of security“ - Made in Germany. For you, this means: A strong market position and ultimately more sales.

We place these high demands on our manufacturing and service. Therefore, in this catalog you will find more than **80 product highlights**, which set new standards in the field of alarm and video monitoring technology:

- **The Secvest 2WAY wireless alarm system** - a breakthrough in the integration of mechanical and electronic systems in a common concept, which keeps you one step ahead of the burglar!
- **The Eytron hybrid digital recorder** - with the most powerful recorder on the market - 40 channels in real-time with full VGA resolution. And best of all: Anyone can operate the system!
- **Video management software VMS** - Top security functions that are easy to operate. Combine any IP and analog cameras and recorder systems on one platform - made in Germany!

The best service - this applies to us on the Internet too. At **www.abus-sc.com** there is a powerful webshop and many new extras such as the creation of **product data sheets with your own dealer logo**. Sincerely,

Andreas Kupka, Manager of ABUS Security-Center International

Andreas Kupka, Manager,
ABUS Security-Center

The four strong points of ABUS Security-Center!

eyseo.

Always the right camera - analog or IP

In the field of surveillance cameras, the Eyseo models leave nothing to be desired. The Eyseo Profiline models are the first surveillance cameras in the world to bear the quality seal of the VdS and are UVV cash point certified.

- NEW: the world's first VdS-certified outdoor housing
- HDR and WDR cameras for difficult backlighting conditions
- Water-proof compact cameras for the harshest environmental conditions
- Super-mini cameras with ultra-wide angle technology
- Controllable speed dome cameras with comprehensive accessories
- IP cameras from the cost-effective entry-level mode to professional cameras with progressive scan

eytron.

Recording at up to 1,000 images per second

Eytron - this means recording in perfection - for any requirements, whether IP or analog: With the Eytron systems the image data is recorded by up to 40 CCTV cameras - real-time and full-size. Complex technology, easy to master - this is what the Eytron video management software stands for.

- Hybrid digital recorder for up to 40 analog and IP cameras
- Network video recorder, specially intended for IP recording
- JPEG2000 recorder - now with dual codec and SATA
- Completely new Eytron PCI video surveillance cards
- Favorable MJPEG recorder with optimal price-performance ratio
- Portable and flexible mini-digital recorder
- Video management software which is very easy to operate

secvest.

Bi-directional wireless and active anti-burglary protection

The new Secvest 2WAY proves that functionality and design can complement each other. It provides seamless security with active anti-burglary protection - thanks to the innovative FTS 96E wireless window securing system. With new bi-directional wireless elements and active status confirmation, everyone can now be 100% secure.

- The first wireless alarm system with active anti-burglary protection by means of mechanical and electronic systems in the new FTS 96 E
- Innovative status light for information at a glance
- Bi-directional elements with active confirmation
- 48 wireless zones for complete all-round securing against burglary, fire, water and emergencies
- New, completely wireless outside siren, suitable for connecting several sirens to an alarm center

terxon.

Wired and hybrid alarms for any requirement

Compatible and flexible: these are only two of the characteristics that apply to the wired and hybrid alarm systems of the Terxon series. Whether for an apartment, home, office building or larger complex: The Terxon series is the security solution for any requirement.

- New, elegant design
- Integration of bi-directional wireless control elements via new Terxon 2WAY module is possible
- Cost-effective entry into alarm technology by means of three new and different complete packages
- Wired and hybrid alarm for any requirement, from Terxon SX to Terxon LX with up to 264 zones
- Comprehensive accessories from batteries and detectors to control elements

Explanation of symbols

Product upgrades and product innovations are marked with this symbol.

UVV cash point-certified video surveillance products are used in banks, jewellery shops and in security-oriented areas. The VBG in Hamburg monitors and tests video monitoring products for safety and image quality in its own testing institute. The Employer's Liability Insurance Association regulation for cash points BGV C9 establishes the „requirements for optical room monitoring systems" for credit and money changing institutions.

As a company in the German Insurance Association (GDV), the VdS damage prevention center is the independent certification center for security technology in Germany. With its strict certification guidelines, the VdS ensures the products are high-quality products, which guarantee the best results and security.

The VSÖ certificate is granted by the Austrian Association of Security Corporations. This neutral association stands for preserving and improving the general security in Austria and its certification confirms the high security standard of alarm and video products.

The INCERT certificate is a quality standard for alarm products, which is especially important in Belgium. No alarm products may be sold in that country without INCERT approval. INCERT certificates are considered a prerequisite for further certification in many EU countries.

Since 1994, NCP (National Center for Prevention) has been certifying burglar and fire alarm products for the Netherlands market. NCP certification is not granted based on any existing certification of a product, but only after precise testing of its features. The certification is based on precise tests of the properties and safety of the products.

As part of the certification process, F&P ensures compliance with the documentation and regulations for manufacturing and operating alarm and fire alarm systems in Denmark.

The 2WAY logo designates bi-directional wireless alarm centers and components. The current status of the center (armed/disarmed) can be displayed at any time at the push of a button.

H.264 is a standard for highly efficient video compression, especially for high resolution image data. The data rate and memory requirement are considerably reduced compared to other compression methods.

European standard EN54 establishes product requirements for safe smoke detectors, fire alarm systems, etc.

Warning sticker

Confidently show your stylish video surveillance alarm system to customers, employees and passers-by. These professional warning stickers scare off potential intruders and can save you a lot of trouble in advance.

- Printed on both sides
- Reflective
- For mounting „on glass" and „behind glass."
- Weather-resistant
- Available for video and alarms in two sizes
- For rooms that are accessible to the public, there is a legal requirement to inform the public about the video surveillance

Article number	VF1312	VF1313	VF1314	VF1315
Version	Video 148x105 mm	Video 74x52.5 mm	Alarm 148x105 mm	Alarm 74x52.5 mm

Misprints and errors excepted.

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Eyseo CCTV Cameras

A wide range of high-quality cameras and VdS-certified lenses take with extremely sharp images day or night - from the discrete mini-dome to the autofocus camera with 570x zoom.

Eyseo box cameras

Unique quality: The world's first camera with VdS-certification

Absolute variety for any use: Eyseo box cameras offer a wide range of Profiline and Ecoline cameras. High-quality Sony chips provide perfect images. The cameras can be combined with a large selection of lenses. The highest level of image quality, processing and anti-manipulation protection – confirmed by the VdS! Additionally, the new VdS outdoor housing (optional, page 86) protects these cameras from external influences.

▶ **starting on page 8**

VdS lenses

The perfect match for the lens

The quality of the camera is lerveraged by the lens. Therefore, VdS-certified lenses are the first choice for any professional pictures. High-quality aspherical lenses ensure optimal light exposure and prevent optical distortion - whether using wide-angle or telephoto. Depending on the budget, the lenses are available with manual aperture or auto-iris function.

▶ **starting on page 12**

Autofocus cameras

State-of-the-art autofocus cameras

When motion is detected, the camera focuses on the action. The object or person entering the scene is accurately detected - at any distance.

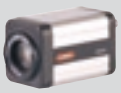
▶ **starting on page 14**

Dome

Fixed dome cameras: Great choice for unlimited possibilities

Whether it is a wide-angle mini-dome with infrared or vandal-proof - the right dome for any application! A highlight is the Eyseo super mini-dome which has an angle of view of 160°, despite its small size of just 40 x 46 mm. Ideal overview for entire rooms.

▶ **starting on page 16**

eyseo. camera		Article number	Image sensor	Day/Night	Certifications**	Page
Eyseo Ecoline Standard*		TV7000 - TV7007	1/3" Sony Super HAD CCD		UVV	8
Eyseo Ecoline day/night*		TV7160 - TV7161	1/3" Sony Super HAD CCD	yes	UVV	8
Eyseo Ecoline Wide Dynamic*		TV7170 - TV7171	1/3" Sony SS2 WDR CCD	yes	UVV	9
Eyseo Profiline VdS colour *		TV7330 - TV7331	1/3" Sony ExView CCD		UVV VdS	10
Eyseo Profiline VdS day/night*		TV7310 - TV7 311	1/3" Sony ExView CCD	yes	UVV VdS	10
Eyseo Profiline VdS Hyper Wide Dynamic*		TV7300 - TV7301	1/3" Sony SS2 CCD	yes	UVV VdS	11
Eyseo Ecoline autofocus camera		TV7053	1/4" Sony Super HAD CCD		UVV	14
Eyseo Ecoline day/night autofocus camera		TV7057	1/4" Sony Super HAD CCD	yes	UVV	14
Eyseo Ecoline day/night infrared-camera		TV7056	1/3“ Sony Super HAD CCD	yes	UVV	15

eyseo. Dome		Article number	Image sensor	IP protection class	Day/Night	Certifications	Page
Eyseo Ecoline Super-Mini-Dome		TV7400 - TV7401	1/4“ Sony Super HAD CCD	IP42			16
Eyseo Ecoline Mini-Dome		TV7110 - TV7113	1/3“ Sony Super HAD CCD	IP54			16
Eyseo Ecoline Vario-Dome		TV7014 - TV7017	1/3“ Sony Super HAD CCD	IP54		UVV	17
Eyseo Ecoline Infrared -Dome		TV7065 - TV7068	1/3“ Sony Super HAD CCD	IP54	yes	UVV	17
Eyseo Ecoline Vandal-proof Mini-Dome		TV7070 - TV7073	1/3“ Sony Super HAD CCD	IP54		UVV	18
Eyseo Profiline Vandal-proof Vario-Dome		TV7060 - TV7063	1/3“ Sony Super HAD CCD	IP65		UVV	18
Eyseo Profiline Vandal-proof infrared -Dome		TV7075 - TV7078	1/3“ Sony Super HAD CCD	IP65	yes	UVV	18
Eyseo Profiline Vandal-proof IR Vario-Dome		TV7085 - TV7088	1/3“ Sony Super HAD CCD	IP65	yes	UVV	19
Eyseo Profiline Vandal-proof IR HDR Vario-Dome		TV7089	1/3“ Sony SS2 WDR CCD	IP65	yes	UVV	19

* you can find suitable lenses on page 12 ** for more information about certifications see page 11

Eyseo Ecoline Standard

TV7006
TV7007

The Ecoline series of Eyseo cameras provide true value for money. The cameras are a fine choice due to their excellent sensitivity down to 0.04 lux in B/W mode and 0.07 lux in colour mode. The Eyseo Standard series includes functions such as electronic shutter, gain control and automatic white balance - which ensure outstanding images.

- 1/3“ SONY Super HAD CCD
- Resolution: 380 to 600 TV lines
- Light sensitivity: 0.04-0.14 lux (F1.0)
- Electronic Shutter (ELC)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Digital Signal Processor (DSP), Automatic White Balance (AWB) (only TV7004-TV7007)
- Synchronization: Internal
- Suitable for C/CS-mount lenses (lens is not included)
- Connection for DC/video auto-iris connector plug
- Operating voltage: 12 VDC or 230 VAC
- Power consumption: max. 3.2 W
- Dimensions (WxHxD): 66x58x123 mm
- UVV certified (TV7006/7)

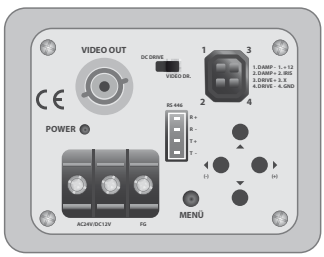
Optional accessories:
Camera mount, outdoor housings (starting on page 87), VdS-lenses (page 12)

Eyseo Ecoline day/night

At daytime, the camera produces brilliant colour images. Equipped with an electro-mechanical infrared cut filter, it automatically switches to night mode when daylight fades – still providing very sharp images. Along with maximum reliability and its sabotage prevention, the camera offers the best prerequisites for professional applications - with an outstanding price-performance ratio.

- 1/3” Colour Sony Super HAD
- Resolution: 550 TV lines
- Automatic day/night switch (electro-mechanical IR cut filter)
- On-Screen Display (OSD)
- Automatic Electronic Shutter (AES)
- Sensitivity: 0.05 lux (F2.0)
- Automatic Gain Control (AGC)
- Back Light Compensation (BLC)
- Automatic White Balance (AWB)
- Camera configuration via RS-485
- Suitable for C/CS-mount lenses (lens not included)
- Control protocol Pelco D, Native, LG
- UVV certified
- Dimensions (WxHxD): 66x52x146 mm

Optional accessories:
Camera mount, outdoor housings (starting on page 87), VdS-lenses (page 12)



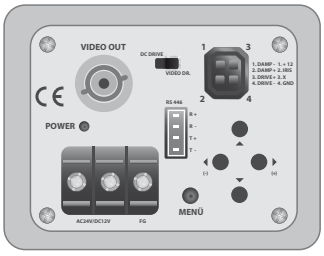
Article number	**TV7000**	**TV7001**	**TV7002**	**TV7003**	**TV7004**	**TV7005**	**TV7006**	**TV7007**	**TV7160**	**TV7161**
Image sensor	1/3“ Sony Super HAD CCD								1/3“ Colour Sony Super HAD	
Resolution	420 TVL		600 TVL		380 TVL		550 TVL		550 TVL	
Colour - B/W	B/W		B/W		Colour		Colour		Colour	
Light sensitivity	0,04 Lux @ F1.0		0,07 Lux @ F1.0		0,07 Lux @ F1.0		0,14 Lux @ F1.0		0,05 Lux @ F2.0 (Night) 0,8 Lux (Day)	
Automatic day/night switch									Removable IR filter	
Operating voltage	12 VDC	230 VAC	12 VDC	230 VAC	12 VDC	230 VAC	12 VDC	230 VAC	12 VDC/24 VAC	110~240 VAC
Certification							UVV-Kassen	UVV-Kassen	UVV-Kassen	UVV-Kassen

Eyseo Ecoline Wide Dynamic

The Eyseo Wide Dynamic Range cameras show their strength in extremely difficult light conditions. The right choice when conventional cameras reach their limits. Even strong contrasts within the image can be balanced due to the wide dynamic range function. In extremly changing light conditions from shadow to bright sunshine this series excels by compensating both extremes. The wide dynamic series is very convincing due to its high level of sensitivity and automatically switching to B/W mode in low light.

- 1/3“ SONY SS2 CCD
- Resolution: 470 TV lines
- Light sensitivity: 0.1 lux (colour), 0.003 lux (DSS)/F1.2
- Day/night switching filter (electro-mechanical removable IR cut filter)
- Signal-to-noise ratio: \> 48 dB
- Wide Dynamic Range, adjustable
- Contrast rate 400:1
- Automatic White Balance (AWB)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- 3x digital zoom (WDR off)
- Automatic Electronic Shutter (AES)
- On-Screen Display (OSD)
- Suitable for C/CS-mount lenses (lens not included)
- Camera configuration via RS-485
- Control protocol Pelco D, Native, LG
- Dimensions (WxHxD): 66x52x146 mm
- UVV certified

Optional accessories:
Camera mount, outdoor housings (starting on page 87), VdS-lenses (page 12)



Article number	TV7170	TV7171
Image sensor	1/3“ Sony SS2 CCD	
Resolution	470 TVL	
Colour - B/W	Colour	
Light sensitivity	0,1 Lux @ F1.2	
Automatic day/night switch	Removable IR filter	
Operating voltage	12 VDC	110~240VAC
Certification	UVV-Kassen	UVV-Kassen

BLC, WDR, HDR: Perfect vision with backlight

Back Light Compensation (BLC)

In addition to the electronic shutter, the Ecoline series of box cameras have the BLC function. BLC prevents the object from beeing displayed too dark due to the small aperture of the iris. For this purpose CCTV cameras analyze approx. 20% of an image, mostly the center of the image. This method ensures a clear view of the central image area, but it is not the best solution under varying light conditions.

Wide Dynamic Range (WDR):

Developed especially for operations under difficult backlight conditions, these WDR cameras analyze almost the entire image (unlike standard cameras) to optimize balancing between different brightness zones. The entire image is exposed and analyzed over a long period of time. Whereas at the beginning of the exposure period bright image areas are the easiest to detect, the objects that are made darker by back light are only exposed subsequently. From these different exposure phases, the camera automatically selects the ideally exposed image section and compiles the entire image from these individual images. Thus, all of the objects in the image are ideally illuminated - regardless of whether they are in the light or in the shadows.

Hyper Dynamic Range (HDR):

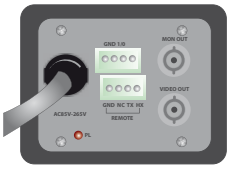
The best feature to counter intensive back light is HDR – the analysis method of the Profiline cameras. Variable exposure times in connection with other Profiline functions achieve extremely precise results for brightness and contrast.

Eyseo Profiline VdS colour

Best of breed in terms of image quality; apterture and processing. Excellent back light compensation and automatic aperture control ensure constant high image quality. The on-screen display allows the user to comfortably set all parameters directly on the camera.

- 1/3“ SONY ExView CCD
- Resolution: 500 - 540 TV lines
- On-Screen Display (OSD) for convenient setting
- High IR sensitivity: 700 - 1100 nm
- 8-stage Electronic Shutter Control (ELC)
- Back Light Compensation with up to 256 individual partitions of the picture and histogram function (BLC)
- Automatic Gain control 0-36 dB (AGC)
- Automatic Aperture Correction (APC)
- Synchronization: Internal / LineLock
- Digital Signal Processor (DSP)
- Automatic White Balance (AWB)
- Suitable for C/CS-mount lenses (lens not included)
- Back focus setting
- Connection for DC/video auto-iris connector plug
- Second video output for test monitor
- Operating voltage: 12 VDC/24 VAC (dual) or 85~265 VAC
- Power consumption: max. 5.5 W
- Certifications: UVV-Kassen, VdS
- Dimensions (WxHxD): 52x71x128 mm

Optional accessories:
Camera mount, outdoor housings (starting on page 87), VdS-lenses (page 12)

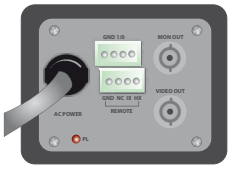


Eyseo Profiline VdS day/night

Absolutely no compromises: With the high-quality cameras of the Profiline day/night series, you are relying on VdS-tested professional quality, even at night. The automatic electro-mechanical IR cut filter switches from the colour mode to light-sensitive B/W mode at night and ensures sharp images at any time of the day or night.

- 1/3“ SONY ExView CCD
- Resolution: 480 TV lines
- On-Screen Display (OSD) for convenient setting
- 8-stage Electronic Shutter Control (ELC)
- Backlight compensation with 256 individual partitions of the picture and histogram function (BLC)
- Electro-mechanical switch from colour to B/W mode below 1-3 lux (IR cut filter, adjustable)
- Automatic Gain Control 0-36 dB (AGC)
- Automatic Aperture Correction (APC)
- Synchronization: Internal / LineLock
- Backfocus setting
- Digital Signal Processor (DSP)
- Automatic White Balance (AWB)
- Suitable for C/CS-mount lenses (lens not included)
- Connection for DC/video auto-iris connector plug
- Second video output for test monitor
- Operating voltage: 12 VDC/24 VAC (dual) or 85~265 VAC
- Power consumption: max. 5 W
- Certifications: UVV, VdS
- Dimensions (WxHxD): 52x71x128 mm

Optional accessories:
Camera mount, outdoor housings (starting on page 87), VdS-lenses (page 12)



Article number	**TV7330**	**TV7331**	**TV7310**	**TV7311**	**TV7300**	**TV7301**
Image sensor	1/3“ Sony ExView CCD		1/3“ Sony ExView CCD		1/3“ Sony SS2 CCD	
Resolution	480 TVL		500 TVL Colour , 540 TVL B/W		550 TVL Colour , 530 TVL B/W	
Colour - B/W	Colour		Colour		Colour	
Automatic day/night switch			Electro-mechanically removable IR cut filter		Electro-mechanically removable IR cut filter	
Light sensitivity	0,07 Lux @ F1.0		0,07 Lux @ F1.0		0,25 Lux @ F1.0	
Privacy masking					yes, 8 Zonen	
Programming	OSD, RS-232		OSD, RS-232		OSD, RS-232	
Digital-Zoom					3 x (HDR off)	
Operating voltage	12 VDC/24VAC	85-265 VAC	12 VDC/24VAC	85-265 VAC	12 VDC/24VAC	85-265 VAC
Certification	UVV-Kassen, VdS		UVV-Kassen, VdS		UVV-Kassen, VdS	

Eyseo Profiline VdS Hyper Wide Dynamic

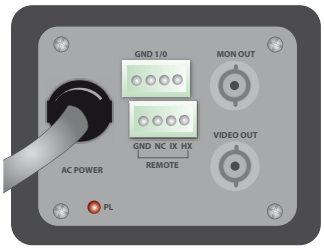
Experience a completely new dimension of back light compensation. The hyper dynamic function and the intelligent back light compensation handle even extremely difficult and contrary light conditions. Very bright areas in the image are darkened, while dark spots are brightened. Thus, the Profiline series of hyper dynamic cameras are setting new standards in their segment. The electro-mechanical IR cut filter switches to the light-sensitive B/W mode. Either automatically or scheduled.

A typical application for this camera is the detection of number plates. Often, number plates are either shaded or in bright light. Conventional cameras are then no longer capable of identifying the number plates, while the HDR technology can fully utilize its strengths.

- 1/3“ Sony SS2 CCD
- Resolution: 500 to 530 TV lines
- Light sensitivity 0.25 lux (F1.0)
- Automatic Electronic Shutter (AES)
- Hyper Dynamic Function
- Contrast rate 400:1
- Automatic Gain Control 0-36 dB (AGC)
- Back Light Compensation (BLC)
- Automatic White Balance (AWB)
- Digital Signal Processor (DSP)
- Gamma correction 0.45 - 1
- Outstanding signal-to-noise ratio of more than 50 dB
- Electro-mechanical switch from colour mode to B/W mode below 1-3 lux
- Electro-mechanically removable IR cut filter with day/night switching
- Suitable for C/CS-mount lenses (lens not included)
- Connection for DC/video auto-iris connector plug
- Digital control input/output
- Privacy masking for 8 zones
- Programming via OSD or RS-232
- Voltage/power: 12 VDC / 24 VAC (dual) or 85-265 VAC/max. 4.5 W
- Certifications: UVV, VdS
- Dimensions (WxHxD): 71x52x128 mm

Optional accessories:
Camera mount, outdoor housings (starting on page 87), VdS-lenses (page 12)

Number plate detection at gas stations.



VdS- and UVV-certification: For sure an advantage

Most Eyseo cameras have the „BG Prüfzert“ certificate of the UVV-Kassen. UVV stands for „Unfall-Verhütungs-Vorschriften“, which translates to „work-related accident prevention regulations“. These regulations are legal obligations to ensure health and safety at the workplace. The UVV certification confirms that these cameras meet the high quality requirements of the BG Prüfzert in Hamburg, Germany. Only certified cameras are allowed to be used in high safety areas such as banks, jewelery stores and alike.

Only the best cameras are entitled to bear the VdS certificate. The prerequisite for this is a UVV-certification. As a company of the German Insurance Association (GDV), the VdS damage prevention center is the independent and accredited test and certification center for fire protection and anti-burglary/robbery protection. With its procedures and standards, it is the toughest German test for quality. In the strict certification process, the VdS builds on high-quality products, which are also subject to further product monitoring after the type testing.

Outdoor housing Profiline

TV8493

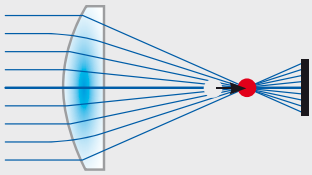
The Profiline outdoor housing is the best protection against physical force or weather conditions. Due to the integrated heating or venting system it operates in icy or extremly hot locations. Top accessories for any VdS series camera (for details, see page 86).

Article number	TV8493	TV8494	TV8495
Extras	Heating	Heating , power supply unit	Heating , power supply unit , fan

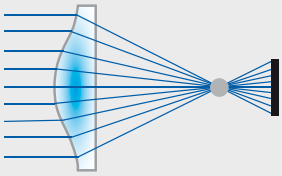
ABUS professional quality for any application

Aspherical lenses
Aspherical lenses ensure high-quality images and prevent blurring on the edges.

Spherical lens



Aspherical lens



360-Close
For all auto-iris lenses from ABUS Security-Center, the aperture is closed 100% – There are no gaps as with conventional apertures. This ensures that the images sensor cannot be stained by dust or dirt.

IR-compatible
During daytime, images from standard lenses do not look any different from those of IR lenses. In darkness however, the IR-corrected lens captures more light which ensures that a high contrast, sharp image is transferred.

1/3“ VdS lens Profiline

VdS*

High-value lenses make the difference – and they ensure brilliant images. With the world‘s first VdS cameras from ABUS Security-Center you will obtain excellent results and benefit from a completely VdS-certified system (camera and lens). With the right lens, you control the amount of light that hits the camera‘s image sensor and you ensure an ideal exposure. You also have everything in view at any time, due to a horizontal of up to 98 degrees. VdS-certified telephoto-lenses ensure exact details even at great distances. Even 50 mm lenses provide a angle of view of 52° - and an ideal overview.

All of the lenses from ABUS Security-Center have a standardised connection (CS mount) and can conveniently be installed on any camera.

Aspherical lenses are the high-end in optics – without blurring and imaging errors. The light entering the aperture is controlled either manually or automatically by means of an auto-iris lens. These VdS lenses are also suitable for IP box cameras with progressive scan technology.

All lenses from ABUS Security-Center are VdS-certified and provide you with a large range of professional functions:

- Aspherically grinded
- CS-mount
- Manual aperture or auto-iris function
- Tele-lens up to 50 mm focal length
- VdS-certified complete system in connection with TV7300, TV7301, TV7310, TV7311, TV7330, TV7331

Article number	**TV8552**	**TV8553**	**TV8554**	**TV8555**	**TV8556**	**TV8572**	**TV8573**
Focal length in mm	8,5 - 40,0 mm	2,8 - 12,0 mm	2,8 - 12,0 mm	2,9 - 8,2 mm	2,9 - 8,2 mm	5,0 - 50,0 mm	5,0 - 50,0 mm
Aperture	F 1.3	F 1.3	F 1.3	F 1.0	F 1.0	F 1.3	F 1.3
Iris	Auto-Iris	Manual	Auto-Iris	Manual	Auto-Iris	Manual	Auto-Iris
Angle of view	7°-34°	24°-98°	24°-98°	35°-98°	35°-98°	6°-52°	6°-52°
IR-light compatible	yes	yes	yes	yes	yes	no	no

* in connection with TV7300, TV7301, TV7310, TV7311, TV7330, TV7331

Focal length in the overview

The TV8555 and TV8556 VdS-lenses are equipped with manual or auto-iris-aperture. The focal length of 2.9 to 8.2 mm (3x zoom) provides a slight wide angle.

TV8556 TV8555

Focal length 2.9 mm (wide angle range)

Focal length 8.2 mm (3x zoom)

The TV8553 and TV8554 VdS lenses are also equipped with manual and auto-iris functions. These lenses have a focal length of wide 2.8 to 12.0 mm (4x zoom).

TV8554 TV8553

Focal length 2.8 mm (wide angle range)

Focal length 12.0 mm (4x zoom)

The TV8552 VdS-telephoto lens provides you with a flexible 5x zoom with a focal length of 8.5 to 40.0 mm as well as an auto iris function.

TV8552

Focal length 8.5 mm (1x zoom)

Focal length 40.0 mm (5x zoom/telezoom)

The TV8572 and TV8573 VdS-telephoto lens are available with manual and auto-iris aperture. With a focal length of 5.0 to 50 mm (10x zoom) they are ideally suited for long distances.

TV8572 TV8573

Focal length 5.0 mm (1x Zoom/standard)

Focal length 50.0 mm (10x zoom/telezoom)

Auto-iris function (AI)

For changing light conditions, choose the auto-iris lenses. These lenses automatically adjust the aperture to the differently occurring light (depending on the time of day) and always guarantee optimally exposed images. With manual lenses, you control the aperture manually - a cost-effective choice for applications where a constant source of incoming light is guaranteed.

Manual iris (17:00)

Auto-iris function (17:00)

Which lens should you use?

The angle of view and the focal length are decisive factors for the lens. For sharp images, the following must be taken into consideration: the optimal distance between the camera and the object and the width of the area to be covered by the camera. If these two values are known (distance from the camera to the object and the width of the area to be covered), the focal length can be calculated.

How to calculate the necessary focal length in mm for a 1/3" image sensor:

$$\frac{\text{Object distance (m)} \times 4.8\text{ mm (= 1/3" image sensor)}}{\text{width of the area to be covered (m)}}$$

Example based on the picture (left):

$$\frac{10\text{ m} \times 4.8\text{ mm}}{2\text{ m}} = \frac{48\text{ mm}}{2} = 24\text{ mm}$$

For this situation, all lenses with a focal length of 24 mm are suitable. An overview of the lenses with corresponding focal lengths can be found in the table on the left.

Right at the action

With ABUS Security Center's autofocus cameras, you will always be close to the action, regardless of how far away it is. You will also experience first-class image quality, certified by the UVV. With the Eyseo autofocus cameras, you will benefit from the most modern camera technology with zoom capability.

1 x zoom (focal length 5 mm)

100 x zoom

560 x zoom (teleobjective)

Extension lens

The extension lens is an optional accessory for the Eyseo autofocus cameras. With this lens, the horizontal angle of view of the camera increases to 6° - 100°.

- Just screw it on and you are ready
- The horizontal angle of view increases by 1.6x (up to 100°)
- Compatible with TV7053 and TV7057

Eyseo Ecoline Autofocus camera

With 22x optical zoom and 16x digital zoom, you can make out details even at great distances - regardless if it is day or night. 470 TV lines provide outstanding image quality.

- 1/4" SONY Super HAD CCD
- Resolution: 470 TV lines
- Light sensitivity: 0.7 lux (F1.6)
- 22x optical zoom (3.9 - 85.8 mm)
- 16x digital zoom
- Auto-iris function
- Horizontal angle of view: 3-47°
- On-Screen Display (OSD)
- Back Light Compensation (BLC)
- Video output 1Vss / 75Ohm / BNC-connection
- Automatic White Balance (AWB)
- Electronic Shutter control 1/50-1/30,000 s
- Signal-to-noise ratio > 48 dB
- Automatic Gain Control: 1 - 26 dB (AGC)
- Camera configuration via RS-485
- Control protocol Pelco D, Native, LG
- Switch from colour mode to B/W mode below 2 lux
- Voltage/power: 12 VDC / max. 4.1 W
- Operating temperature: -10°C to +50°C
- UVV certified
- Weight: 550 g
- Dimensions (WxHxD): 60x72x132 mm

Optional accessories:
Extension lens TV7051

Eyseo Ecoline day/ night autofocus camera

Super zoom: With 560x zoom, you are right at the center of the action! The 35x optical zoom and 16x digital zoom allow you to make out the smallest detail at great distances - in best image quality (470 TV lines). The autofocus detects the distance to an object andmeasuresautomatically sets the optimal zoom factor. An automatic day/night switch (B/W mode below 2 lux) provides brilliant images by day or night. During daytime the IR cut filter covers the CCD. At night, the filter is removed and the needed infrared light can reach the CCD (B/W mode).

- 1/4" SONY Super HAD CCD
- Resolution: 470 TV lines
- Light sensitivity: 0.12 lux (day) 0.05 lux (night)
- 35x optical zoom (3.43 - 120 mm) plus 16 x digital zoom
- Auto-iris function
- Horizontal angle of view: 1,7 - 57,8°
- On-Screen Display (OSD)
- Back Light Compensation (BLC)
- Automatic White Balance (AWB)
- Electronic Shutter control 1/50-1/30,000 s
- Signal-to-noise ratio > 48 dB
- Automatic Gain Control: 1 - 26 dB (AGC)
- Camera configuration via RS-485
- Control protocol Pelco D, Native, LG
- Removable IR - cut filter
- Switch-over from colour mode to B/W mode below 2 lux
- Voltage/power: 12 VDC / max. 4.1 W
- UVV-Kassen certified
- Dimensions (WxHxD): 60x72x105 mm

Optional accessories:
Extension lens TV7051

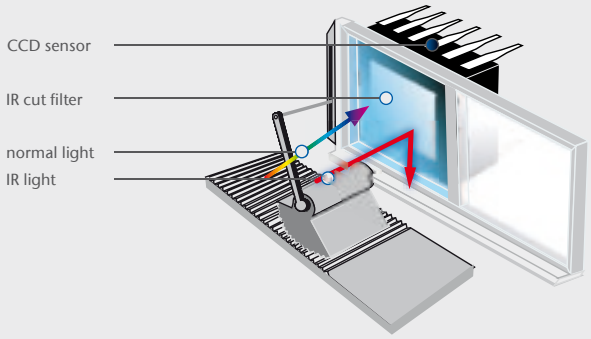
Eyseo Ecoline day/night infrared camera

This infrared camera offers multiple functions in a compact design. In total darkness, eight IR LEDs illuminate the object. During daytime, an IR cut filter covers the CCD, preventing infrared light from disturbing the image sensor. Below 2 lux the filter is removed and the IR light can pass through (B/W mode). In total darkness (0 lux), the LEDs provide the light needed.

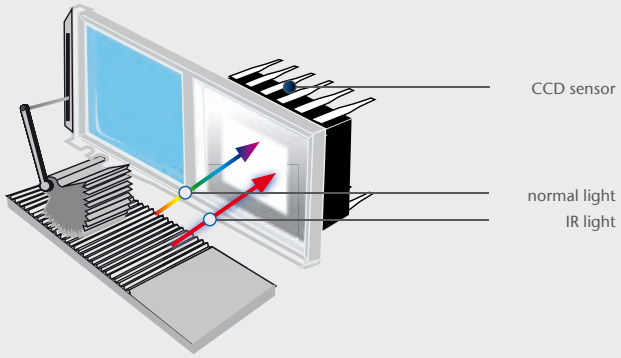
- 1/3" SONY Super HAD CCD
- Resolution: 480 TV lines
- Light sensitivity: 0.8 lux / 0 lux (IR on)
- 3.3 - 12 mm Vario-zoom lens
- Horizontal angle of view: 23° - 83,9°
- Back Light Compensation (BLC)
- Digital Signal Processor (DSP)
- Electronic Shutter (ELC)
- Automatic Gain Control (AGC)
- Automatic White Balance (AWB)
- 8 IR LEDs (850 nm) incl. photo LED sensor
- Electro-mechanical switch from colour mode to B/W mode below 2 lux (removable IR cut filter)
- Voltage/power: 12 VDC / max. 3.5 W
- UVV certified
- Dimensions (WxHxD): 64x54x142 mm

Good images at day or night

In low light, cameras with electro-mechanical switch change from Colour to B/W mode.



Day mode: The blocking filter is in front of the CCD and it prevents IR light from entering.



Night mode: IR light can pass through in order to obtain ideal images in darkness.

Article number	**TV7053**	**TV7 057**	**TV7051**	**TV7056**
Resolution	470 TVL	470 TVL		480 TVL
Automatic day/night switch	Electronic switch-over from colour to B/W	Removable IR cut filter		Removable IR cut filter
Light sensitivity	0.7 lux with F1.6	0.7 lux with F1.6		0.8 lux / 0 lux IR on
Lens	3.9 - 85.8 mm	3.43 - 120 mm		3.3 - 12 mm
Horizontal angle of view	3°- 47°	1,7°- 57,8°	6°- 100°	23°- 83,9°
Digital zoom	16x	16x		
Optical zoom	22x	35x		
Total zoom	352x	560x		
Remote control	RS-485	RS-485		
Integrated IR illumination				yes (8 LEDs)
Certification	UVV-Kassen	UVV-Kassen		UVV-Kassen

Eyseo Ecoline Super-Mini-Dome

Maximum technology in minimum space: With only 40x46 mm in size, the super mini-dome is cutting edge technology in concealed video surveillance and provides outstanding images. With a horizontal angle of view of up to 160° (TV7402) an entire room can be observed.

- 1/4" SONY Super HAD CCD
- Lens: 2.7 mm / 1.6 mm / 1.22 mm wide-angle
- Resolution: 480 TV lines
- Horizontal angle of view: 67° / 108° / 160°
- Light sensitivity 2.0 lux (F2.2)
- Electronic Shutter (ELC)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Automatic White Balance (AWB)
- Voltage/power: 12 VDC / max. 0.6 W
- Dimensions (HxØ): 40x46 mm

Total overview with 160° angle of view

Eyseo Ecoline Mini-dome

Excellent image quality and compact design are the distinguishing features of the Eyseo mini-dome. After installation, the camera can be adjusted on three axis.

- 1/3" SONY Super HAD CCD
- Integrated 3.6 mm miniature lens
- Resolution: 380 - 600 TV lines
- Light sensitivity: 0.25 - 1.0 lux (F2.0)
- Horizontal angle of view: 78°
- Camera module adjustable in three axis
- Electronic Shutter Control (ELC)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Automatic White Balance (AWB)
- Digital Signal Processor (DSP)
- Voltage/power: 12 VDC / max. 1.3 W
- Dimensions (HxØ): 54.5x74 mm

Scope of delivery:
Dome camera, wall mount

Including wall/ceiling mount

Perfect overview with a horizontal angle of view of 78° (3.6 mm focal length).

Article number	TV7400	TV7401	TV7402	TV7110	TV7111	TV7112	TV7113
Resolution	480 TVL	480 TVL	480 TVL	420 TVL	600 TVL	380 TVL	550 TVL
Colour - B/W	Colour	Colour	Colour	B/W	B/W	Colour	Colour
Light sensitivity	2.0 lux (F 2.2)			0.1 lux	0.2 lux	0.3 lux	0.4 lux
Lens	2.7 mm	1.6 mm	1.22 mm	3.6 mm miniature			
Horizontal angle of view	67°	108°	160°	78°			
Protection class	IP42			IP54			
Dimensions (HxØ)	40x46 mm			54.5x74 mm			
Certification							

Eyseo Ecoline Vario-Dome

TV7017

Due to the integrated auto-iris vario-focal lens the area to be covered can ideally be focussed on. The dome can be flexibly aligned after installation via the in two axis adjustable camera module.

- 1/3” SONY Super HAD CCD
- Integrated 3.7-12 mm auto-iris vario-focal lens
- Resolution: 380 - 600 TV lines
- Horizontal angle of view: 23,8° - 71,6°
- Camera module in two axis adjustable
- Light sensitivity: 0.07 - 0.26 lux (F1.6)
- Electronic Shutter Control (ELC)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Automatic White Balance (AWB)
- Digital Signal Processor (DSP)
- Voltage/power: 12 VDC / max. 4 W
- Dimensions (HxØ): 91x107 mm
- UVV certified (only TV7017)

Eyseo Ecoline infrared dome

TV7068

24 integrated IR LEDs with a range of 15 meters enable this dome for use. Even in total darkness.

- 1/3” SONY Super HAD CCD
- Integrated 3.6 mm miniature lens
- Resolution: 380 - 600 TV lines
- Horizontal angle of view: 78°
- Camera module in two axis adjustable
- Light sensitivity: 0.1 - 0.4 lux (F2.0) / 0 lux (IR on)
- 24 IR LEDs (active below 1 lux /15 m range)
- Electronic Shutter (ELC)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Colour: Digital switch from colour to B/W mode below 1 lux and Digital Signal Processor (DSP)
- Voltage/power: 12 VDC / max. 5.7 W
- Dimensions (HxØ): 97x140 mm
- UVV certified (only TV7068)

Optional accessories:
Wall mount for dome TV7079

Day mode

Night mode, IR on

Article number	**TV7014**	**TV7015**	**TV7016**	**TV7017**	**TV7065**	**TV7066**	**TV7067**	**TV7068**
Resolution	420 TVL	600 TVL	380 TVL	550 TVL	420 TVL	600 TVL	380 TVL	550 TVL
Colour - B/W	B/W	B/W	Colour	Colour	B/W	B/W	Colour	Colour
Automatic day/night switch							Electronic switch-over from colour to B/W < 1 Lux	
Light sensitivity	0.07 lux	0.13 lux	0.13 lux	0.26 lux	0.1 lux	0.2 lux	0.2 lux	0.3 lux
Lens	3.7-12 mm Auto-Iris Variofocal				3.6 mm wide-angle			
Horizontal angle of view	23,8° - 71,6°				78°			
Protection class	IP54				IP54			
Integrated IR illumination					24 LEDs, 15 m range (880 nm)			
Dimensions (HxØ)	91x107 mm				97x140 mm			
Certification				UVV-Kassen				UVV-Kassen

Accessories for Eyseo cameras:

Wall mount for dome

The mount ensures easy installation of the Eyseo dome.

Suitable for TV7060-TV7063, TV7065-TV7068, TV7075-TV7078, TV7085-TV7089, TV7098-TV7099

Article number	**TV7079**

Ecoline and Profiline

When searching for the right product, keep these characteristics in mind and decide on products from the Ecoline or Profiline series, depending on the situation and requirement:

Ecoline

Cost-effective and reliable: This is what makes the Ecoline products appealing in the security market.

Profiline

High-end solutions for higher demands and difficult conditions: the Profiline products from ABUS Security-Center ensure this at an outstanding price-performance ratio.

Power for the dome:

CCTV power supply unit TV7616

▶ Page 19

Eyseo Ecoline Vandal-proof Mini-Dome

TV7073

Miniature with maximum performance: Small, rugged and top-quality images. This is what makes the mini-dome outstanding.

- 1/3” SONY Super HAD CCD
- Integrated 3.0 mm miniature lens
- Resolution: 380 - 600 TV lines
- Horizontal angle of view: 96°
- Camera module adjustable in two axis
- Sensitivity: 0.1 - 0.4 lux (F2.0)
- Electronic Shutter: 1/50 - 1/110,000 s
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Colour: Automatic White Balance (AWB) and Digital Signal Processor (DSP)
- Vandal-proof design
- Protection class: IP54
- Voltage / power: 12 VDC / max. 2.64 W
- UVV certified (only TV7073)
- Dimensions (HxØ): 66x109 mm

Optional accessories:
Wall mount for dome (TV7079)
CCTV power supply unit (TV7616)

Eyseo Profiline Vandal-proof Vario-Dome

TV7063

Ideal angle of view for any distance: With the 3x zoom, you have everything perfectly in view. This camera is well protected against vandalism.

- 1/3” SONY Super HAD CCD
- Integrated 3.7 - 12 mm Auto-Iris Variofocal lens
- Resolution: 380 - 600 TV lines
- Horizontal angle of view: 23,8° - 71,6°
- Camera module horizontally and vertically pivotable
- Light sensitivity: 0.07 - 0.26 lux (F1.6)
- Electronic Shutter (ELC), Back Light Compensation (BLC), Automatic Gain Control (AGC)
- Colour: Automatic White Balance (AWB) and Digital Signal Processor (DSP)
- Vandal-proof design
- Protection class: IP65
- Voltage/power: 12 VDC / max. 4 W
- UVV certified (only TV7063)
- Dimensions (HxØ): 97x140 mm

Optional accessories:
Wall mount for dome (TV7079),
CCTV power supply unit (TV7616)

Eyseo Profiline Vandal-proof Infrared Dome

TV7078

The Eyseo anti-vandal IR domes turn night into day and can deal with any attack.

- 1/3” SONY Super HAD CCD
- Integrated 3.6 mm miniature lens
- Resolution: 380 - 600 TV lines
- Horizontal angle of view: 78°
- Camera module adjustable in two axis
- Light sensitivity: 0.1 - 0.4 lux (F2.0) / 0 lux (IR on)
- 24 IR LEDs (active below 1 lux / 15 m range)
- Electronic Shutter (ELC), Back Light Compensation (BLC), Automatic Gain Control (AGC)
- Colour versions: Automatic White Balance (AWB) and Digital Signal Processor (DSP)
- Vandal-proof design
- Protection class: IP65
- Voltage/power: 12 VDC / max. 5.7 W
- UVV certified (only TV7078)
- Dimensions (HxØ): 96.5x145 mm

Optional accessories:
Wall mount for dome (TV7079),
CCTV power supply unit (TV7616)

Article number	**TV7070**	**TV7071**	**TV7072**	**TV7073**	**TV7060**	**TV7061**	**TV7062**	**TV7063**	**TV7075**	**TV7076**	**TV7077**	**TV7078**
Resolution	420 TVL	600 TVL	380 TVL	550 TVL	420 TVL	600 TVL	380 TVL	550 TVL	420 TVL	600 TVL	380 TVL	550 TVL
Colour - B/W	B/W	B/W	Colour	Colour	B/W	B/W	Colour	Colour	B/W	B/W	Colour	Colour
Automatic day/night switch											Electronic switch-over from colour to B/W < 1 Lux	
Light sensitivity	0.1 lux	0.2 lux	0.2 lux	0.4 lux	0.07 lux	0.13 lux	0.13 lux	0.26 lux	0.1 lux	0.2 lux	0.2 lux	0.4 lux
Lens	3.0 mm miniature				3.7-12 mm Auto-Iris Variofocal				3.6 mm miniature			
Horizontal angle of view	96°				23,8° - 71,6°				78°			
Protection class	IP54				IP65				IP65			
Integrated IR illumination									24 LEDs, 15 m range (880 nm)			
Dimensions (HxØ) in mm	66x109 mm				97x140 mm				96.5x145 mm			
Certification				UVV				UVV				UVV

Eyseo Profiline Vandal-proof IR Vario-Dome

TV7088

Our all-rounders provide the best overview even in difficult light conditions and are effectively protected against attacks.

- 1/3” SONY Super HAD CCD
- Integrated 3.7 - 12 mm Auto-Iris Variofocal lens
- Resolution: 380 - 600 TV lines
- Horizontal angle of view: 23,8° - 71,6°
- Sensitivity: 0.1 - 0.3 lux (F2.0) / 0 lux (IR on)
- 24 IR-LEDs (active below 1 lux/ 15 m range)
- ELC, BLC, AGC, AWB, DSP
- Vandal-proof
- Protection class: IP65
- Outstanding signal-to-noise ratio of more than 48 dB
- Voltage / power: 12 VDC / max. 5.7 W
- UVV certified (only TV7088)
- Dimensions (HxØ): 100x140 mm

Optional accessories:
Wall mount for dome (TV7079), CCTV power supply unit (TV7616)

Eyseo Profiline Vandal-proof IR HDR Vario-Dome

The infrared vario-dome is outstanding due to its intelligent camera technology with hyper-wide-dynamic function.

- 1/3” SONY SS2 WD CCD
- Integrated 3.7 - 12 mm Auto-Iris Variofocal lens Resolution: 470 TV lines
- Horizontal angle of view: 23,8° - 71,6°
- Sensitivity: Night mode/BW 0.1 lux (F1.2), DDS 0.001 lux (F1.2), 0 lux (IR on)
- 24 IR-LEDs (below 1 lux/15 m range)
- 3x digital zoom (WDR off)
- BLC, AGC, WDR, DSP
- Vandal-proof
- Protection class: IP65
- Outstanding signal-to-noise ratio of more than 48 dB
- Voltage/power: 12 VDC / max. 5.7 W
- Dimensions (HxØ): 100x140 mm

Optional accessories:
Wall mount for dome (TV7079), CCTV power supply unit (TV7616)

As strong as granite!

When intruders try to sabotage cameras or domes with brutal force, only vandal proof domes withstand even against massive hammer strokes.

No movement is unnoticed by the infrared eye:

Cameras with integrated infrared illumination are outstanding night guards and make every movement visible. When switching to B/W mode the IR LEDs are automatically turned-on to improve image quality.

Article number	**TV7085**	**TV7086**	**TV7087**	**TV7088**	**TV7089**
Resolution	420 TVL	600 TVL	380 TVL	550 TVL	470 TVL
Colour - B/W	B/W	B/W	Colour	Colour	Colour
Automatic day/night switch			Electronic switch-over from colour to B/W < 1 Lux		Removable IR cut filter
Light sensitivity	0.1 lux	0.2 lux	0.2 lux	0.3 lux	0.1 lux (F1.2), DDS 0.001 lux (F1.2), 0 lux (IR on)
Lens	3.7-12 mm Auto-Iris Variofocal				3.7 - 12 mm Variofocal
Horizontal angle of view	23,8° - 71,6°				23,8° - 71,6°
Protection class	IP65				IP65
Integrated IR illumination	24 LEDs, 15 m range (880 nm)				
Dimensions (HxØ)	100x140 mm				
Certification				UVV	

Accessories for Eyseo domes:

CCTV power supply unit 1500 mA

The power supply unit is used for Eyseo CCTV cameras.

- Voltage: 12 VDC
- Amperage: 1500 mA
- Euro plug-in

Article number	TV7616

Wall mount for dome

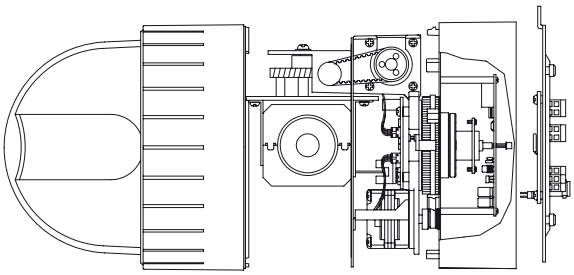
The stable wall mount ensures easy installation of the Eyseo domes.

Suitable for TV7060-TV7063, TV7065-TV7068, TV7075-TV7078, TV7085-TV7089, TV7098-TV7099

Article number	TV7079

Speeddome Cameras

360° infinite rotation, lightning fast pan/tilt motion and (remote) control via control panel or PC. For discrete surveillance indoors or outdoors, there are seven types of high-end professional gear.



Professional surveillance for multi use!

Built out last - this makes the difference: For 24/7 use 365 days - year in year. Therefore: With Eyseo speeddome cameras, you are relying on extremely high-quality and durable mechanical parts such as sliding contacts (tested up to 20 million infinite rotations), V-belts, zoom, etc.

Absolute precision: The action is right in your sight!

Precision tested a million times! Even at rotating speeds of up to 300°/sec., you can always rely on extremely precise movements. The mechanism of the Eyseo speeddome cameras only deviates by 0.024° after millions of movements! Each preset position is approached with precision and the object of interest is ideally centered in the angle of view - even at -10° Celsius.

Discrete monitoring: With low-noise technology!

With a speeddome, you can continuously monitor even the largest of areas. More importantly, the camera does not reveal its activity due to motor or rotation noises! Due to the low-noise technology, the Eyseo speeddome provides you with absolute security, even in this respect: Silently making its observations providing you with sharp images from an almost invisible guard.

Accessories: Extras for installation & operation

The perfect accessories for any application - especially for outdoor installations: These mountings ensure a solid installation, whether you are fastening the equipment in near by inaccessible spots, on ceilings, corners, exterior facades or poles. Components such as converters, repeaters, the RS-485 module, etc. also allow the dome to be controlled via control panel or PC.

	Eyseo Ecoline Pan/Tilt inclining fixed dome 380 TVL	Eyseo Ecoline Pan/Tilt inclining fixed dome 470 TVL	Eyseo Profiline Mini-Speeddome	Eyseo Ecoline Speeddome 23x	Eyseo Ecoline Speeddome 30x	Eyseo Profiline Speeddome 26x	Eyseo Profiline Speeddome 36x
Article number	TV7098	TV7099	TV7602	TV7600	TV7601	TV7603	TV7604
Image sensor	1/3“ Sony Super HAD CCD	1/3“ Sony Super HAD CCD	1/4“ Sony CCD	1/4“ Sony Super HAD CCD	1/4“ Sony Super HAD CCD	1/4“ Sony ExView CCD	1/4“ Sony ExView CCD
Resolution	380 TVL	470 TVL	500 TVL	520 TVL	520 TVL	480 TVL	480 TVL
Lens	Fixed lens, 3.6 mm	Fixed lens, 3.6 mm	Zoom lens, 3.8 - 38 mm	Zoom lens, 3.8 - 88.4 mm	Zoom lens, 3.3 - 99 mm	Zoom lens, 3.5 - 91 mm	Zoom lens, 3.4 - 122.4 mm
Horizontal angle of view	78°	78°	5,58° - 51,2°	2,3° - 52,5°	2,2° - 58°	2,2° - 54,2°	1,7° - 57,8°
Pan/Tilt range	vertical:340° horizontal: 80°	vertical:340° horizontal: 80°	vertical: 360° horizontal: 180°	vertical: 360° horizontal: 180°	vertical: 360° horizontal: 180°	vertical: 360° horizontal: 180°	vertical: 360° horizontal: 180°
Max. speed	Pan: 300°/s Tilt: 80°/s	Pan: 300°/s Tilt: 80°/s	Pan: 200°/s Tilt: 200°/s	Pan: 300°/s Tilt: 250°/s	Pan: 300°/s Tilt: 250°/s	Pan: 300°/s Tilt: 250°/s	Pan: 300°/s Tilt: 250°/s
Optical zoom	--	--	10x	23x	30x	26x	36x
Digital zoom	--	--	10x	10x	10x	12x	12x
Control protocol	Pelco D/P, Native	Pelco D/P, Native	Pelco D/P	Pelco D/P, Maxpro / T-Pro	Pelco D/P, Maxpro / T-Pro	Pelco D/P, Maxpro / T-Pro	Pelco D/P, Maxpro / T-Pro
Number of preset positions	16	16	165	165 or 60 in 8 groups	165 or 60 in 8 groups	165 or 60 in 8 groups	165 or 60 in 8 groups
Interfaces	RS-485	RS-485	RS-485	RS-485	RS-485	RS-485	RS-485
Control via	Control panel, IR remote control	Control panel, IR remote control	Control panel	Control Control panel	Control panel	Control panel	Control panel
Protection class	IP54	IP54	IP66	IP66 (with outdoor housing)	IP66 (with outdoor housing)	IP66 (with outdoor housing)	IP66 (with outdoor housing)
Light sensitivity	0.2 lux	0.3 lux	2.5 lux (day) 0.07 (night)	0.1 lux	0.1 lux	0.1 lux	0.1 lux
Backlighting compensation	BLC	BLC	BLC	BLC	BLC	BLC	WDR
Day/night function	--	--	yes	yes	yes	yes	yes
Privacy masking	--	--	4	4	4	24	24
Alarm input (NC/NO)	1	1	4	4	4	4	4
Relay outputs	--	--	--	2	2	2	2
Operating temperature	-10° to +50°C	-10° to +50°C	-10° to +50°C	-10° to +50°C (with outdoor housing -40° to +50°C)			
Voltage/power	12 VDC / max. 1500 mA	12 VDC / max. 1500 mA	12 VDC / max. 16 W	18 - 32 VAC / max. 18 W	18 - 32 VAC / max. 18 W	18 - 32 VAC / max. 18 W	18 - 32 VAC / max. 18 W
Certifications			UVV-Kassen	UVV-Kassen	UVV-Kassen	UVV-Kassen	UVV-Kassen

Everything in view with only one camera

The Ecoline pan/tilt fixed dome is the most cost-effective entry-level solution for remotely controlled video surveillance. What is special about this camera: it can be manually controlled via remote control or control panel. You can control any image section of this dome camera due to the vertical rotation of 340°, a horizontal rotation of 80°and a 300°/sec panning speed and 80°/sec tilting speed.

Quick and precise video surveillance

In addition to the Eyseo pan/tilt fixed dome camera, you can choose between five other high-end speeddome surveillance models from ABUS Security-Center. Sliding contacts that have been tested for 20 million revolutions guarantee a very long service life. In addition, the newly developed low-noise technology ensures extremely quiet movements with an accuracy of 0.024°. Thus, even in this segment, ABUS Security-Center provides professionalism for an extraordinary value for money.

Eyseo Ecoline pan/inclining fixed dome

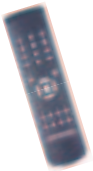
The Eyseo pan/tilt fixed dome is the cost-effective solution for controllable video surveillance. The option of operating the camera remotely gives installers and users interesting advantages. An entire room in view with only one camera the dome pans to 16 programmable preset positions, by its own. The alarm input of the dome camera also supports effective surveillance. If this input is triggered - for example by the opening of a door - the dome then focuses on a spot chosen by you in up front. This way, you don't miss a thing, even if you are not manually operating the camera.

- 1/3" Colour Sony Super HAD
- 3.6 mm fixed lens
- Resolution: 380 - 470 TV lines
- Pan speed 300°/s (automatic) / 150°/s (manual)
- Tilt speed: 80°/s
- 340° vertical rotation, 80° horizontal rotation
- Alarm input, settable N.C. / N.O.
- Remote control function via RS-485
- Control protocol Pelco D/P, Native
- Light sensitivity: 0.2/0.3 lux (F 2.0)
- Signal-to-noise ratio: > 48 dB
- Automatic White Balance (AWB)
- Automatic Gain Control (AGC)
- Automatic Electronic Shutter (AES)
- Back Light Compensation (BLC)
- 16 preset positions can be saved
- Operating temperature: -10°C to +50°C
- Weight: 650 g
- Power supply for pan/ tilt fixed dome: 12 VDC/ max. 1500 mA (TV7616)
- Power supply for IR control: 12 VDC/ max. 500 mA (TV7616)
- Dimensions (HxØ): 130x142 mm

Optional accessories:
Control panel (TV7605)

Scope of delivery:
Dome camera, IR remote control, IR receiver box, cables, mounting parts, instructions

Receiver module



Remote control

Article number	TV7098	TV7099
Resolution	380 TVL	470 TVL
Light sensitivity	0.2 lux (F 2.0)	0.3 lux (F 2.0)
Lens	3.6 mm fixed lens	
Protection class	IP54	
Remote control	RS-485	

Control panel Profiline

The control panel can simultaniously manage up to 255 Motor Domes via RS-485.

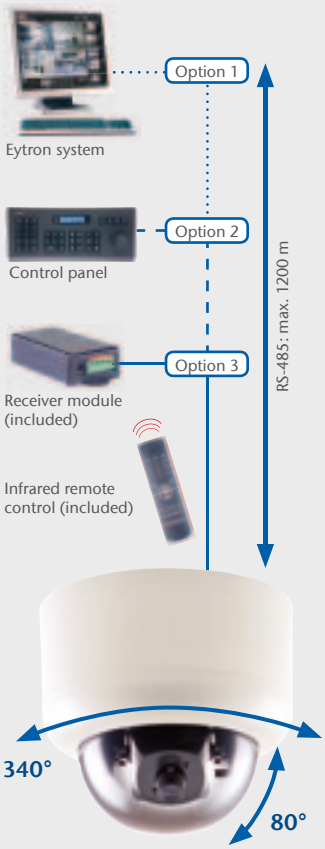
- Joystick controller with 3-axis-control and zoom-in / zoom-out functions
- For up to 255 Motor domes
- Protocols: Pelco, MaxPro / T-Pro
- Power supply: 12 VDC (included)
- Power consumption max. 500 mA
- Illuminated display
- Weight: 1.2 kg
- Dimensions with joystick (WxHxD): 365x150x99 mm

More details on page 27.

Article number	TV7605

Operating made easy

Three control options can be implemented via the RS-485 cabling of the pan/tilt fixed dome camera.



Option 1: The dome can be controlled at the computer via an installed Eytron PCI card. This is connected to a serial port or TV8468 with a USB port via the TV8469 interface converter.

Option 2: The Profiline (TV7605) Control panel represents a professional control option, which can also be used for several speeddomes.

Option 3: The supplied infrared remote control ensures easy operation of the dome at the push of a button.

CCTV switching power supply unit 1500 mA

This power supply fits to all Eyseo cameras.

- Tested security
- Voltage: 12 VDC
- Amperage: 1500 mA
- Euro plug-in

Article number	TV7616

Wall mount for dome

The wall mount ensures easy and secure installation of the Eyseo speeddome.

Suitable for TV7060-TV7063, TV7065-TV7068, TV7075-TV7078, TV7085-TV7089, TV7098-TV7099

Article number	TV7079

The ideal solution for control, management and recording

The high-performance video management software from ABUS Security-Center delivers an efficient software solution for all computer-based video monitoring. The new VMS Basic video management software - „Made in Germany“ provides you with all of the functions that professional surveillance systems need. The basic version is included with the dual-stream video server, all IP cameras and Eytron PCI cards: You simply connect the dome to these components - and you can conveniently control the dome from a PC and manage your video data via Internet browser (additional information on page 61).

Ingenious usage

One effective surveillance function of the mini-speeddome is the programming of its alarm inputs and alarm outputs. If an alarm contact is activated - e.g. by triggering of an opening detector on a door - the dome focuses on the position that was preselected. Up to 165 of these preset positions can be set. 60 of these programmed positions can also be combined to „make the rounds.“ Even without controlling the dome manually, you have large surveillance areas reliably in your sight with only one camera (when optimally installed). You can also activate external sounders or alarm panels via the alarm outputs.

Jan Moser, Product Marketing

„The Eyseo mini-speeddome is the ideal solution, especially for large events. Its mobility (360°/180°), speed (200°/sec) and zoom (100x) offers complete overview at any time.“

Eyseo Profiline Mini-Speeddome

The Eyseo mini-speeddome is setting new standards: The small dimensions, favorable entry-level price and high level of performance give the dome an exceptional position in the market. Due to its compact housing, the dome looks good indoors as well. Numerous control options, a high-quality zoom lens and alarm functions ensure efficient monitoring of stores or sections of companies that need security.

- 1/4“ Sony CCD
- Resolution: 500 TV lines
- 360° continuous rotation
- 180° flip-over function
- Pan/tilt speed: max. 200°/sec.
- Horizontal angle of view: 5,58° - 51,2°
- 165 preset positions can be saved, 8 programmable patterns, 8 sectors
- 4 alarm inputs with programmable alarm action (preset, group or pattern)
- 10x autofocus zoom lens10x digital zoom
- OSD menu
- Light sensitivity: 2.5 lux (F1.8) during the day, 0.07 lux (F1.8) in night mode
- Day/night function with removable IR cut filter
- Privacy masking with 4 programmable zones
- Autofocus function
- Automatic White Balance (AWB)
- Digital Signal Processor (DSP)
- Automatic Aperture Control
- Back Light Compensation (BLC)
- Signal-to-noise ratio: > 52 dB
- Protection class: IP66
- Programmable auto-scan
- Password protection
- Controllable via RS-485
- Control protocol Pelco D/P
- Several menu languages available
- Operating temperature: -10°C to +50°C
- Voltage/power: 12 VDC/ max. 16 W
- UVV-Kassen certified
- Dimensions (HxØ): 157x167 mm

Optional accessories:
Control console (TV7605), switching power supply unit (TV7616)

Also suitable for installing in a ceiling.

Article number	TV7602
Resolution	500 TVL
Colour - B/W	Colour
Automatic day/night switch	Electro-mechanically removable IR filter
Light sensitivity	2.5 lux (F1.8) during the day, 0.07 lux (F1.8) in night mode
Lens	3.8 - 38 mm
Optical zoom	10x autofocus
Digital zoom	10x
Protection class	IP66
Remote control	RS-485
Certification	UVV-Kassen

Control panel Profiline

The control panel can simultaniously manage up to 255 Motor Domes via RS-485.

- Joystick controller with 3-axis-control and zoom-in / zoom-out functions
- For up to 255 Motor domes
- Protocols: Pelco, MaxPro / T-Pro
- Power supply: 12 VDC (included)
- Power consumption max. 500 mA
- Illuminated display
- Weight: 1.2 kg
- Dimensions with joystick (WxHxD): 365x150x99 mm
- Details see page 27

Article number	TV7605

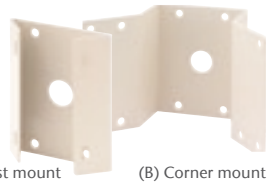
Wall mount for mini-speeddome

This wall mount is ideal for savely attaching the mini-speeddome to walls.

- Internal wiring
- Adaptable to poles and corners mounts (TV7610, TV7611)
- Colour: white

Article number	TV7613

Adapter for mini-speeddome



(A) Mast mount (B) Corner mount

With the aid of the mast or corner mount, the mini-speeddome can even be placed in nearly inaccessible spots.

- Secure installation of the mini-speeddome in corners or on masts
- The wall bracket (TV7613) must be adapted

Article number	TV7610	TV7611
Type of mount	(A) Mast	(B) Corner

Smoked dome bubble

Provided with a smoked bubble, it is completely impossible for an observer to make out the camera module.

- The camera's field of view remains hidden
- Easily exchanged

Article number	TV7618

Control via the Internet

BNC + RS-485
PC with installed VMS Basic software and connected to video server (software on video server, incl.)
MPEG4 / RTSP
MJPEG stream

Via the RS-485 port, the images from the mini-speeddomes can be digitalized and viewed on a computer using the TV7206 dual-stream video server (see page 49). You can also process images in the LAN - as an MJPEG stream or for mobile devices as MPEG4 via RTSP.

With the aid of the video server and the VMS Basic video software, the mini-speeddome can be controlled via a browser.

▶ **Additional information on the video management software on page 60.**

Eyseo Ecoline Speeddome

During the development of the new Eyseo speeddome cameras, the specific requirements of professional video installers were taken into consideration. With special low-noise technology and precise movements.

- 1/4“ Sony Super HAD CCD
- Resolution: 520 TV lines
- Light sensitivity: up to 0.1 lux
- Continuous 23x or 30x, optical autofocus zoom lens
- 10x digital zoom
- Low-noise technology
- 360° infinite rotations (tested on 20 million rotations)
- 165 preset positions
- 8 programmable groups, each with a max. of 60 preset positions
- 300°/sec. rotating speed and 250°/sec. tilting speed
- 4 alarm inputs (NO/NC) linkable to preset positions
- 2 relay outputs
- Remotely controllable via RS-485 (up to 127 dome cameras connectable)
- Control protocol Pelco D/P and Maxpro / T-Pro
- Automatically removable IR cut filter for day/night switch
- Highly developed DSP for automatic white balance
- Back Light Compensation (BLC)
- Automatic Aperture Control (APC)
- OSD menu
- Password-protected
- Menu languages: German, English, French, Danish, Dutch
- Reverse polarity protection
- Dimensions (HxØ): 190x147 mm
- UVV-Kassen certified

Scope of delivery:
Speeddome camera, 24 VAC power supply, ceiling installation frame (40 mm installation depth) incl. cover, installation instructions

Optional accessories:
See pages 28-29

Eyseo Profiline Speeddome

The Profiline devices are characterized by the especially powerful Sony Exview image sensor, which ensures the sharpest images at any time of day or night. With special low-noise technology and a minimum deviation of only 0.024° they also stand for quick, easy and precise movements.

- 1/4“ Sony ExView CCD
- Resolution: 480 TV lines
- Light sensitivity: up to 0.1 lux
- Innovative focusing algorithm from Sony
- Continuous 26x or 36x, optical autofocus zoom lens
- 12x digital zoom
- Low-noise technology for extremely slight movements with 0.024° accuracy
- 360° infinite rotations (tested on 20 million rotations)
- 165 preset positions
- 8 programmable groups, each with a max. of 60 preset positions
- 300°/sec. rotating speed and 250°/sec. tilting speed
- 4 alarm inputs (NO/NC) linkable to preset positions
- 2 relay outputs
- Remotely controllable via RS-485 (up to 127 dome cameras connectable)
- Control protocol Pelco D/P and Maxpro / T-Pro
- Automatically removable IR cut filter for day/night switch
- Highly developed DSP for automatic white balance
- Automatic Aperture Control (APC)
- TV7603: Back Light Compensation (BLC), TV7604: Wide Dynamic Range (WDR)
- OSD menu
- Password-protected menu
- Menu languages: German, English, Reverse polarity protection
- Dimensions (HxØ): 190x147 mm
- UVV-Kassen certified

Scope of delivery:
Speeddome camera, 24 VAC power supply unit, ceiling installation frame (40 mm installation depth) incl. cover, installation instructions

Optional accessories:
See pages 28-29

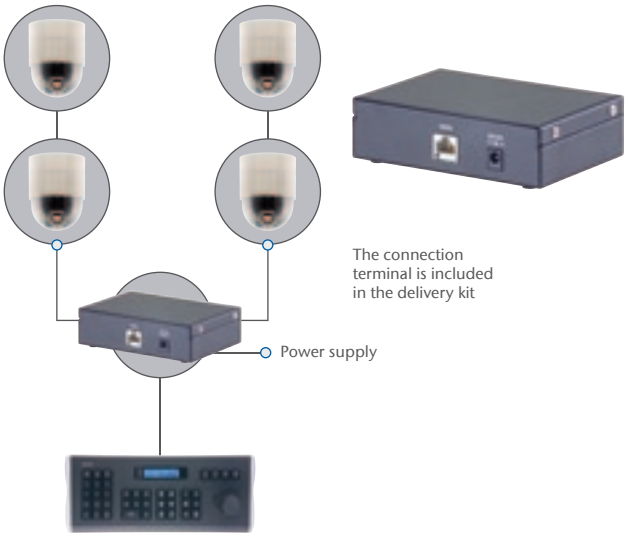
Article number	TV7600	TV7601	TV7603	TV7604
Resolution	520 TVL	520 TVL	480 TVL	480 TVL
Camera module	Samsung (Ecoline)	Samsung (Ecoline)	Sony (Profiline)	Sony (Profiline)
Automatic day/night switch	Mechanically removable IR cut filter			
Lens	3.8 - 88.4 mm	3.3 - 99 mm	3.5 - 91 mm	3.4 - 122.4 mm
Horizontal angle of view	2,3° - 52,5°	2,2° - 58°	2,2° - 54,2°	1,7° - 57,8°
Optical zoom	23x autofocus	30x autofocus	26x autofocus	36x autofocus
Digital zoom	10x		12x	

Control panel Profiline

The control panel can simultaniously manage up to 255 Motor Domes via RS-485. Speeddomes can be controlled and the zoom factor can be changed with the joystick. The OSD menu of each dome can also be managed via the control panel.

- Joystick controller with 3-axis-control and zoom-in / zoom-out functions
- For up to 255 Motor domes
- 128 programmable preset positions
- Illuminated display
- Direct access to the OSD menu
- Two RS-485 outputs
- Protocols: Pelco, MaxPro / T-Pro
- Power supply: 12 VDC (included)
- Power consumption max. 500 mA
- Illuminated display
- Weight: 1.2 kg
- Incl. connetion terminal for easy wiring
- Dimensions with joystick (WxHxD): 365x150x99 mm

Scope of delivery:
Control panel, control terminal, power supply, RJ45 8-pin connecting cable.



The connection terminal ensures the wiring is neat: Only a single cable is connected to the control console, because all of the speeddomes and the power supply of the control console are connected to the connection terminal.

The connection terminal is included in the delivery kit

Article number	TV7605

Silence is the sign of quality

Put up with loud motor noises during rotation or buy a more expensive model: For a long time, those were the two alternatives for anyone who wanted to buy a speeddome camera. Now ABUS Security-Center offers the high-quality technology even for small to medium-sized budgets. The newly developed low-noise technology ensures extremely quiet movements with an accuracy of 0.024°. Thus, even in this segment, ABUS Security-Center provides professionalism for a top price-performance ratio.

The dome can go to any desired image section in a flash thanks to the 360° infinite rotation and a panning speed of 300°/sec. and an tilting speed of 250°/sec. The sliding contacts are tested for 20 million rotations and guarantee a long service life. With the aid of the up to 36x optical zoom, even the smallest details of the image section are sharp.

Frank Würfel, Product Marketing

„Whenever I am asked about the ideal video surveillance system for logistics center, industrial plant or sports arenas, I recommend the TV7604 Profiline speeddome from ABUS Security-Center. Thanks to the 360°rotation and the 180° flip-over function, the dome can monitor a large area. The important feature is the Wide Dynamic Range function of the speeddome, which balances the different brightness ranges in difficult backlight conditions and optimally adapts the image. The control console allows professional control and monitoring. Eight programmable groups, each with 60 preset positions and a speed of 300°/seconds make the speeddome a multi-faceted surveillance professional.“

Smoked dome bubbles

The smoked dome bubbles are optional accessories for the speeddome series (TV7617), the mini-speeddome (TV7618) and for the outdoor housing (TV7619). Provided with a smoked bubble, it is completely impossible for an observer to make out the camera module.

- The camera's field of view remains hidden
- Quick and easy installation

Article number	TV7617 (A)	TV7618 (B)	TV7619 (C)
Specification	for speeddome	for mini-speeddome	for outdoor housing

Outside housing for Eyseo speeddome

The outside housing with a wall mount guarantees a good protection for the Eyseo speeddome, whether in the cold or rain.

- Integrated heating and fan
- Protection class IP66
- Operating temperature: -40°C to + 50°C
- Maximum power: 18 W
- Power supply: 24 VAC, 60/50 Hz (with camera 24 VAC, 2 A)
- Weight: 3.4 kg
- Dimensions (HxØxØ dome): 307x253x190 mm

Article number	TV7606

Adapter for holder

For quick installation of a dome camera: This adapter is used as a flush mount for speeddome cameras on ceilings. It is also used in combination with the TV7609 ceiling arm and the TV7612 wall arm.

- For mounting on a ceiling in combination with the TV7609 ceiling holder
- Also suitable for the TV7612 arched wall holder
- Quick and easy installation

Article number	TV7608

Installation frame

These rugged and solid frames are used to install the speeddome series in suspended ceilings.

- Rugged and stable construction
- For installing in a suspended ceiling
- TV7607 suitable for TV7600, TV7601, TV7603, TV7604
- TV7620 suitable for mini-speeddome TV7602

Article number	TV7607	TV7620

Adapter for speeddome

With the aid of the pole or corner mount adaptor, the speeddome can even be placed in various spots.

- Secure installation of the speeddome in corners or on poles
- The wall mount (TV7612) must be adapted

Article number	TV7610	TV7611
Type of mount	(A) Mast	(B) Corner

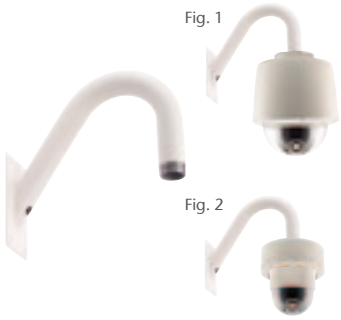
Ceiling arm for speeddome

In combination with the TV7606 outside housing (fig. 1) or the TV7608 indoor adapter (fig. 2), the arm is used to install the dome on the ceiling.

- For installing the Eyseo speeddome on the ceiling
- In combination with the TV7606 outside housing
- To be combined with the TV7608 adapter indoors

Article number	TV7609

Wall arm for speeddome



In combination with the TV7606 outside housing (fig. 1) or the TV7608 indoor adapter (fig. 2), the arm is used to install the dome on the wall.

- For installing the Eyseo speeddome on the wall
- In combination with the TV7606 outside housing
- To be combined with the TV7608 adapter indoors

Article number	TV7612

RS-485 matrix

With this practical device, you can connect up to three control devices such as a control panel or Eytron systems to speeddomes.

- Inputs: 1x RS-232, 2x RS-485
- Outputs: 4x RS-485, possible to connect up to 1200 m of TP cable
- Over-voltage protection for each channel
- Serial data is simultaneously distributed to all four outputs
- Rugged metal housing
- Voltage/power: 12 VDC, max. 350 mA
- Dimensions (WxHxD): 133x76x44 mm

Article number	TV8473

RS-485 repeater

Front view

Rear view

Double the range of the RS-485 BUS signals with this practical repeater.

- The use of a max. of 32 repeaters / a (theoretical) transmission range of 38.4 km is possible
- Automatic bandwidth detection up to 115.2 Kbit/s
- Pluggable screw terminal for easy wiring
- LED displays for power and RX
- 2.5 kV insulation protection
- Over-voltage protection
- Rugged, black metal housing
- Voltage/power: 12 VDC / 350 mA
- Dimensions (WxHxD): 88x27.5x67 mm

Article number	TV8466

RS-232 to RS-485 / RS-422 converter

Front view

Rear view

This converter changes RS-232 data to RS-485 or RS-422 data with a maximum transmission rate of 115.2 kB per second.

- RS-232 connection: D-Sub (DB9) or RJ11 connection
- RS-485/RS-422 connection: Connection terminal or RJ11
- Signal transmission: 2-wire half-duplex RS-485 / 4-wire full duplex RS-485/RS-422
- Automatic baud rate detection
- Max. transmission rate: 115.2 KBit/s
- Transmission range: max. 1200 m (depending on transmission rate)
- LED display for power supply and signal status
- Voltage/power: 5 VDC / max. 500 mA
- Dimensions (WxHxD): 107x25x79 mm

Article number	TV8467

Interface converter

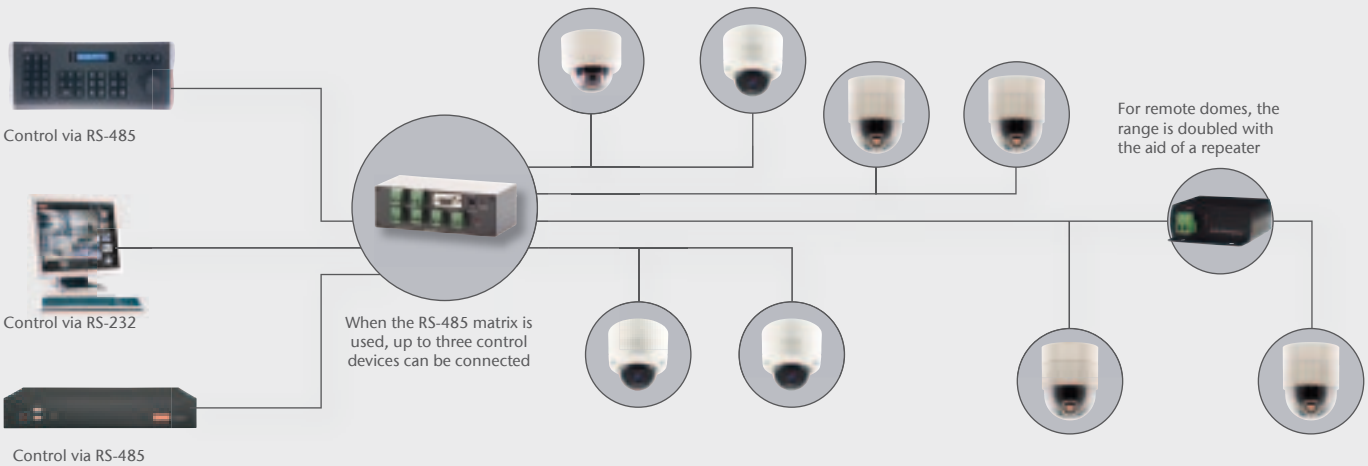
These practical interface converters are indispensable for controlling your cameras via RS-485, regardless of which connections are available. Serial or USB 2.0 signals will be reliably converted.

- Converts RS-232 to RS-485, half-duplex
- Quick connection in seconds
- Driver CD included (TV8468 only)

Article number	**TV8468**	**TV8469**
Connection	USB	Serial

Perfectly under control

Depending on the requirement, the interface converters can be effectively used in different situations. When the RS-485 matrix is used, several domes can be operated on three different control devices. With the aid of one or more repeaters, you can extend the range of the BUS signals by 1200 meters per repeater.


Control via RS-485
Control via RS-232
Control via RS-485
When the RS-485 matrix is used, up to three control devices can be connected
For remote domes, the range is doubled with the aid of a repeater

Waterproof Cameras

Outdoor surveillance: in any weather and under harshest conditions. These water proof all-rounders are perfect stand-alone devices which need no outdoor housing. mini-cameras and compact-cameras make a multitude of surveillance possible and reduce cost.

eyseo.	Eyseo Ecoline Mini tube cameras	Eyseo Ecoline waterproof IR compact cameras	Eyseo Ecoline waterproof super mini-cameras	Eyseo Profiline waterproof tube cameras
Article number	TV7180 - TV7181	TV7182 - TV7183	TV7510 - TV7512	TV7040 - TV7043
Image sensor	1/4“ Sony Super HAD CCD (colour)	1/3“ Sony Super HAD CCD	1/4“ Sony Super HAD CCD	1/3“ Sony Super HAD CCD
Resolution	max. 420 TVL	max. 480 TVL	480 TVL	max. 600 TVL
Protection class	IP66	IP68	IP66	IP68
Light sensitivity	min. 0.1 lux	0.05 lux	2 lux	min. 0.01 lux
Integrated IR	---	integrated	---	---
Horizontal angle of view	72°	78°	67° / 108 ° / 160°	78°
Lens	Fixed lens, 3.6 mm	Fixed lens, 3.6 mm	Fixed lens, 2.7 mm/ 1.6 mm /1.22 mm	Fixed lens, 3.6 mm
Waterproof	splashes and rain resitant	splashes and rain resitant	splashes and rain resitant	up to 30 meters
Certifications	---	---	---	UVV-Kassen
Application areas	Cost-effective	Day/night surveillance with a maximum price-performance ratio	Discrete outdoor surveillance (incl. wide-angle)	High image performance in outdoor areas
Page	32	32	33	33

eyseo. Profiline	Eyseo Profiline waterproof IR compact cameras	Eyseo Profiline salt water proof compact camera	Eyseo Profiline waterproof vario-focal compact cameras	Eyseo Profiline waterproof vario-focal IR compact cameras
Article number	TV7044 - TV7047	TV7048	TV7140 - TV7143	TV7144 - TV7147
Image sensor	1/3“ Sony Super HAD CCD	1/3“ Sony ExView CCD	1/3“ Sony Super HAD CCD	1/3“ Sony Super HAD CCD
Resolution	max. 600 TVL	480 TVL	max. 600 TVL	max. 600 TVL
IP protection class	IP68	IP68	IP68	IP68
Light sensitivity	min. 0.01 lux	0.05 lux	min. 0.01 lux	min. 0.01 lux
Infrared illuminator	integrated	---	---	integrated
Horizontal angle of view	78°	78°	31° - 77°	31° - 77°
lens	Fixed lens, 3.6 mm	Fixed lens, 3.6 mm	Vario-lens, 3.6 - 9.0 mm	Vario-lens, 3.6 - 9.0 mm
Waterproof	up to 30 meters	up to 50 meters salt water	up to 30 meters	up to 30 meters
Certifications	UVV-Kassen	---	UVV-Kassen	UVV-Kassen
Application areas	Efficient day/night surveillance in outdoor areas	Usage under extreme conditions (industry, salt water)	Flexible surveillance in outdoor areas	Flexible day/night surveillance in outdoor areas
Page	38	38	39	39

Not afraid of water: Protection class IP66 and IP68

Waterproof: The best images in any weather!

Eyseo waterproof cameras have a minimum protection class of IP 66 (protection against dust and temporary immersion). Top models are classified with IP 68 (dust-proof and waterproof for constant immersion). These cameras guarantee highest reliability in rain, snow and other extreme environmental conditions (factory, construction site, river banks, etc.) even without an outdoor housing.

Images all around the clock: with integrated IR illuminators

Designed for absolute darkness.

Not only Profiline models are equipped with 35 infrared LEDs, even the cost-effective Ecoline cameras are equipped with them. The IR LEDs are integrated in the compact housing - a separate IR illuminator is no longer necessary, even for recording in complete darkness. When the light drops below 2 Lux, the infrared illuminators provide additional light to maintain the high image quality.

The vario lens for sharp pictures

All-inclusive and immediately ready to use: Camera and lens perfectly combined!

These cameras are not just popular for being waterproof they offer a wide choice of fixed or vario lenses, too. In addition to the wide variety of applications and the compact design, you will also benefit from the favorable prices.

Eyseo Ecoline mini-tube cameras

This compact tube camera is the cost-effective entry-level model to the world of video surveillance. Digital Signal Processor and automatic white balance ensure good colour images. The B/W model is popular for its resolution of 420 TV lines at the lowest price. The rugged design with protection class IP 66 enables the usage outdoors, even under wet and adverse environmental conditions.

- Colour: 1/4“ SONY Super HAD CCD B/W: 1/3“ Interline Transfer CCD
- Resolution: 330 / 420 TV lines
- Lens: 3.6 mm fixed lens
- IP 66
- Automatic Electronic Shutter (AES)
- Backlight compensation with a window histogram (BLC)
- Automatic Gain Control (AGC)
- Automatic Aperture Correction (APC)
- Colour: Automatic White Balance (AWB)
- Digital Signal Processor (DSP)
- Light sensitivity: 0.1-0.5 lux
- Signal-to-noise ratio > 48 dB
- Synchronization: Internal
- Voltage/power: 12 VDC / max. 1.44 W
- Dimensions (ØxD): 28x89.5 mm

Scope of delivery:
Mini-tube camera, camera mount, 1.5 meter cable

Optional accessories:
CCTV switching power supply unit (TV7616), Ready-to-connect video extension cable (TV7184 - TV7186)

Eyseo Ecoline waterproof IR compact cameras

A top price-performance ratio. This is the compact all-rounder being waterproof and including infra red LEDs for night vision. Includes a lens, dust-proof and waterproof seal and an infrared function for the best night vision - for a sensational price. The light-sensitive 1/3“ Super HAD CCD image sensor from Sony ensures best images with up to 480 TV lines. In low light, 35 integrated IR LEDs ensure good illumination. All inclusive: The 3.6 mm lens provides for a horizontal angle of view of 78°. Many professional functions are included:

- 1/3“ Sony Super HAD CCD
- Lens: 3.6 mm fixed lens
- Resolution: 420/480 TV lines
- Horizontal angle of view: 78°
- Automatic day/night switch
- 35 infrared LEDs
- Electronic Shutter (ELC)
- Backlight compensation with a window histogram (BLC)
- Automatic Gain Control (AGC)
- Protection class IP68
- Dimensions (ØxD): 60x110 mm

Scope of delivery:
Compact camera, camera mount, sun-roof, 1-meter cable

Optional accessories:
CCTV switching power supply unit (TV7616), ready-to-connect combination video cable (TV7184 - TV7186)

Article number	**TV7180**	**TV7181**	**TV7182**	**TV7183**
Image sensor	1/3“ Interline Transfer CCD	1/4“ Sony Super HAD CCD	1/3“ Sony Super HAD CCD	
Resolution	420 TVL	330 TVL	420 TVL	480 TVL
Colour - B/W	B/W	Colour	Colour	Colour
Light sensitivity	0.1 lux	0.5 lux	0.05 lux (IR off), 0 lux (IR on)	
Lens	3.6 mm		3.6 mm	
Horizontal angle of view	72°		78°	
Infrared sensitivity			400-850 nm	
Protection class	IP66		IP68	
Dimensions(ØxD) in mm	28x89.5 mm		60x50 mm	

Accessories for waterproof cameras:

Ready-to-connect video extension combi cable

- Video signal and power supply combined in one cable
- Fitted with BNC and DC plugs
- Suitable for all cameras with a BNC jack (female) and power connection (male)
- Compatible to TV7180 - TV7183

Article number	**TV7186**	**TV7184**	**TV7185**
Cable length	10 m	20 m	30 m

Eyseo Ecoline waterproof super mini-cameras

67° wide-angle lens

108° wide-angle lens

160° wide-angle lens

This is the future of camera technology for discrete outdoor surveillance: The new super mini-camera is rugged (protection class IP66). Despite its extremely compact housing design provides television-quality resolution. The ultra-wide-angle lens with a angle of view up to 160° captures everything that happens. Due to physical limitations distortions might occur. With the integrated mount, it can be flexibly and easily installed.

- 1/4“ SONY Super HAD CCD
- Lens: 2.7 mm / 1.6 mm / 1.22 mm wide-angle
- Resolution: 480 TV lines
- Horizontal angle of view: 67°/108°/160°
- Minimum illumination (IRE30): 2.0 lux (F 2.2)
- Video output: 1 Vss / 75 Ω /BNC connection
- Back Light Compensation (BLC)
- Automatic Electronic Shutter1/50s - 1/100,000s (AES)
- Automatic Gain Control (AGC)
- Automatic White Balance (AWB)
- Digital Signal Processor (DSP)
- Signal-to-noise ratio > 48 dB
- Operating temperature: -10°C to +50°C
- Voltage: 12 VDC
- Amperage: < 50 mA
- Weight: 165 g
- Dimensions (WxHxD): 40x40x35 mm

Scope of delivery:
Mini-camera, camera mount, 2-meter cable, installation instructions, fasteners

Optional accessories:
CCTV power supply (TV7616)

Eyseo Profiline waterproof tube cameras

TV7043

This high-performance top-seller is not afraid of water. Due to its compact design, this tube camera is ideally suited for inconspicuous surveillance. The beautiful look of the camera makes a perfect match for design oriented shops such as high-tech electronic stores or galleries! The camera is absolutely waterproof and is equipped with a very light-sensitive image sensor providing finest picture quality.

- 1/3“ SONY Super HAD CCD
- Incl. 3.6 mm lens
- Resolution: 420 - 600 TV lines
- Horizontal angle of view: 78°
- Light sensitivity: 0.01-0.05 lux (F2.0)
- Digital switch-over from colour to B/W under 2 lux (IR-compatible)
- Electronic Shutter (ELC)
- Backlight compensation with Window Weight Setting (BLC)
- Automatic Gain Control (AGC)
- Automatic Aperture Correction (APC)
- Protection class IP68, waterproof up to 30 m
- Voltage/power: 12 VDC / max. 3 W
- UVV-Kassen certified (only TV7043)
- Dimensions (ØxD): max. 32x110 mm

Scope of delivery:
Sun-roof, wall mount, power supply unit, BNC/cinch adapter, 30 m cable

Article number	TV7510	TV7511	TV7512	TV7040	TV7041	TV7042	TV7043
Image sensor	1/4“ SONY Super HAD CCD			1/3“ Sony Super HAD CCD			
Resolution	480 TVL			420 TVL	600 TVL	420 TVL	550 TVL
Colour - B/W	Colour			B/W	B/W	Colour	Colour
Automatic day/night switch						From colour to B/W < 2 Lux	
Light sensitivity	2.0 lux (F 2.2)			0.01 lux	0.01 lux	0.05 lux	0.05 lux
Lens	2.7 mm	1.6 mm	1.22 mm	3.6 mm	3.6 mm	3.6 mm	3.6 mm
Horizontal angle of view	67°	108°	160°	78°	78°	78°	78°
Infrared sensitivity				780-1100 nm		780-940 nm	
Protection class	IP66			IP68, waterproof			
Dimensions(ØxD) in mm	40x40x35			28x105 mm		32x110 mm	
Watertight up to				30 meters			
Certification							UVV-Kassen

Accessories for waterproof cameras:

Extension cable

- Length: 30 meters
- High-quality connections pre fitted
- Colour: Black
- Suitable for TV7040 - TV7048, TV7140-TV7147

Article number	TV4050

Eyseo Profiline waterproof IR compact cameras

TV7047

Equipped with 30 infrared LEDs, the Eyseo waterproof compact cameras automatically switch to light-sensitive B/W mode below 2 lux and provide extremely sharp images day and night. This is a reason why these cameras are so popular for surveillance of public buildings and entry-ways.

- 1/3“ SONY Super HAD CCD
- Incl. 3.6 mm lens
- Resolution: 420 - 600 TV lines
- Horizontal angle of view: 78°
- Light sensitivity: 0.01-0.05 lux (F2.0)
- Digital switch-over from colour to B/W under 2 lux (IR-compatible)
- Electronic Shutter (ELC)
- Backlight compensation with autom. Window Weight Setting (BLC)
- Automatic Gain Control (AGC)
- Automatic Aperture Correction (APC)
- 30 IR LEDs (840 nm) activated below 2 lux
- Protection class IP68, waterproof up to 30 m
- Voltage/power: 12 VDC / max. 6 W
- UVV-Kassen certified (only TV7047)
- Dimensions (ØxD): max. 64x110 mm

Scope of delivery:
Sun-roof, mount, power supply unit, BNC/cinch adapter, 30 m cable

Eyseo Profiline vandal-proof compact camera

The high-end solution for extreme applications: Ideally suited for surveillance by the sea, the camera is also widely used in industry. Protected by a rugged, salt water-proof nylon housing, this all-rounder can survive any application in water as deep as 50 meters - even offshore. For surveillance in factories, etc. despite dust, water, salt and chemicals. The extremely light-sensitive 1/3“ ExView CCD from Sony ensures the best video images. With 480 TV lines, it provides brilliant, high-quality images.

- 1/3“ SONY ExView CCD
- Integrated 3.6 mm lens
- Resolution: 480 TV lines
- Horizontal angle of view: 78°
- Salt water-proof nylon housing with sun-roof and holder made of high-quality stainless steel
- Light sensitivity: 0.05 lux (F2.0)
- Digital Image Processing (DSP)
- Automatic Gain Control (AGC)
- Automatic Aperture Correction (APC)
- Electronic Shutter (ELC)
- Backlight compensation with autom. Window Weight Setting (BLC)
- Automatic White Balance (AWB)
- Digital switch-over from colour to B/W under 2 lux (IR-compatible)
- Protection class IP68, waterproof to 50 m
- Voltage/power: 12 VDC / max. 3 W
- Dimensions (ØxD): max. 70x190 mm

Scope of delivery:
Sun-roof, wall mount, power supply unit, BNC/cinch adapter, 50 m cable

Article number	**TV7044**	**TV7045**	**TV7046**	**TV7047**	**TV7048**
Image sensor	1/3“ Sony Super HAD CCD				1/3“ Sony ExView HAD CCD
Resolution	420 TVL	600 TVL	420 TVL	550 TVL	480 TVL
Colour - B/W	B/W	B/W	Colour	Colour	Colour
Automatic day/night switch			From colour to B/W < 2 lux		From colour to B/W < 2 lux
Light sensitivity	0.01 lux	0.01 lux	0.05 lux	0.05 lux	0.05 lux
Infrared sensitivity	700-850 nm				780-940 nm
Integrated IR illumination	30 LEDs, 840 nm, light sensor				
Protection class	IP68, waterproof				IP68, salt water-proof
Dimensions(ØxD) in mm	64x110 mm				70x190 mm
Watertight up to	30 meters				50 meters
Certification				UVV-Kassen	

Eyseo Profiline waterproof vario-focal compact cameras

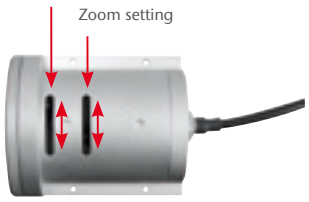
TV7143

With protection class IP68, these Eyseo compact cameras are perfectly protected against penetrating dust or water - to a water depth of 30 meters. Thus, these compact security professionals ensure a long life and a high degree of reliability in any environment. The integrated vario-focal lens always provides the important details, even at variable distances. Thanks to automatic day-night switch and the high level of internal image processing, the cameras are perfectly suited for use by day or at night.

- 1/3“ SONY Super HAD CCD
- Vario-focal lens 3.6 - 9.0 mm
- Digital Image Processing (DSP)
- Automatic day/night switch
- Watertight to 30 m (IP68)
- Horizontal angle of view 31-77°
- Automatic Gain Control (AGC)
- Backlight compensation with autom. Window Weight Setting (BLC)
- Operating temperature: -10° C to +50° C
- Voltage/power: 12 VDC / max. 6 W
- Dimensions (ØxD): 74x190 mm
- UVV-Kassen certified (only TV7143)

Scope of delivery:
Protective sun-roof (pre-installed), wall/ceiling mount, installation instructions, calibration tool, power supply unit, 30 meter cable

Focus setting
Zoom setting



Setting via calibration tool (view from above)

Eyseo Profiline waterproof vario-focal IR compact cameras

TV7147

The perfect all-rounder in unprotected outside areas: With 42 infrared LEDs, automatic day-night switch and an integrated vario-focal lens for setting the zoom and the focus, this compact camera combines all of the advantages of the Eyseo Profiline series. This multi-talent is especially popular, not just in industrial environments, but also anywhere where you need a solution that is as flexible as it is reliable under difficult environmental conditions.

- 1/3“ SONY Super HAD CCD
- Vario-focal lens 3.6 - 9.0 mm
- Automatic day/night switch (by means of electro-mechanical IR cut filter)
- Watertight to 30 m (IP68)
- Horizontal angle of view 31-77°
- 42 LEDs / 840 nm / 40° IR angle
- Electronic Shutter (ELC)
- Backlight compensation with autom. Window Weight Setting (BLC)
- Automatic Gain Control (AGC)
- Digital Image Processing (DSP)
- Operating temperature -10° C to +50° C
- Voltage/power: 12 VDC / max. 6 W
- Dimensions (ØxD): 74x190 mm
- UVV-Kassen certified (only TV7147)

Scope of delivery:
Protective sun-roof (pre-installed), wall/ceiling holder, installation instructions, power supply unit, 30 meter cable

Focus setting
Zoom setting

Setting via movable magnets (view from below)

Article number	**TV7140**	**TV7141**	**TV7142**	**TV7143**	**TV7144**	**TV7145**	**TV7146**	**TV7147**
Image sensor	1/3“ Sony Super HAD CCD				1/3“ Sony Super HAD CCD			
Resolution	420 TVL	600 TVL	480 TVL	550 TVL	420 TVL	600 TVL	480 TVL	550 TVL
Colour - B/W	B/W	B/W	Colour	Colour	B/W	B/W	Colour	Colour
Automatic day/night switch			From colour to B/W < 2 lux				From colour to B/W < 2 lux	
Light sensitivity	0.01 lux	0.01 lux	0.05 lux	0.05 lux	0.01 lux	0.01 lux	0.05 lux	0.05 lux
Infrared sensitivity	780-940 nm				780-940 nm			
Integrated IR illumination	-				42 LEDs, 840 nm			
Protectio class	IP68, waterproof				IP68, waterproof			
Dimensions(ØxD) in mm	74x190 mm				74x190 mm			
Watertight up to	30 meters				30 meters			
Certification				UVV-Kassen				UVV-Kassen

Mini-Cameras

Concealed surveillance in XXS format shows you what is happening, in beautiful image quality. These cameras are the right choice when little space is available or when (internal) theft is the issue.

eyseo.

Concealed in the ceiling: flush-mount or standard cameras

Integrated in or mounted on suspended ceilings, this camera is nearly invisible to those who are under surveillance.

▶ **starting on page 38**

True size: The tiny observer

Pin hole cameras are tiny and fit into any cigarette box. In the right position, you can catch intruders, thieves, etc. in the act, all by yourself.

▶ **starting on page 39**

Portable security: Mini-cameras for cars and taxis

Attacks on taxis have doubled over the last ten years! Just one example for using the camera in a car. Combined with a mini-DVR and a car kit, mini-cameras provide new flexibility in car surveillance.

▶ **starting on page 39**

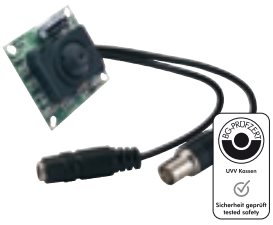
Board cameras: Image quality and selection in mini-format

Splendid optics in minimum space: with high-quality Sony CCDs, board cameras provide brilliant colour images with up to 550 TVL. You can select the right camera from the eleven Eyseo models for any application, location or purpose.

▶ **starting on page 40**

XXS format: Super mini-camera with a pin-hole lens

Top-notch for concealed use: The small lens (less than 1 mm) with a focal length of 3.7mm captures every detail even through a pin-hole. And the light-sensitive sensor (0.1 lux) ensures ideal images.



▶ **starting on page 40**

TV7107

Variable lens coverage

Four board cameras that can be combined with six swappable lenses: With a focal length of 2.5 to 16 mm (wide-angle), you always have the perfect angle of view for any surveillance.

▶ **starting on page 40**

TV7105

Optimal cover: Covert mini-cameras in PIR housings

See without being seen cameras concealed in a PIR housing. Our suggestion: Take note of the new Eytron mini-camcorder with a mini-camera and mini-DVR in a PIR housing (page 76)!

▶ **starting on page 41**

TV7029

Absolutely invisible: Covert camera in a smoke detector housing

Even insiders and burglars don't take notice of a smoke detector. The camera inside the detector gives you all of the details you need to record incidents.

▶ **starting on page 41**

TV7025

eyseo. Camera	Article number	Image sensor	Horizontal angle of view	Page
Eyseo flush mounted cameras	TV7018 - TV7019	1/3“ Sony Super HAD CCD	71°	38
Eyseo mini-pin hole cameras	TV7020 - TV7021	1/3“ Sony Super HAD CCD	71°	39
Eyseo super-mini colour cameras	TV7150	1/4“ Sharp CCD	71°	39
Eyseo super-mini board cameras	TV7500 - TV7502	1/3“ Sony ExView CCD	67°/ 108°/ 160°/	40

eyseo. Camera	Article number	Image sensor	Horizontal angle of view	Certifications	Page
Eyseo board cameras with pin hole lens	TV7102 - TV7103 / TV7106 - TV7107	1/3“ Sony Super HAD CCD	71°	UVV	40
Eyseo board cameras with exchangable lenses	TV7100 - TV7101 / TV7104 - TV7105	1/3“ Sony Super HAD CCD	96°	UVV	40
Eyseo cameras in PIR housing	TV7026 - TV7029	1/4“ Sharp CCD	71°	UVV	41
Eyseo cameras in smoke detector housing	TV7022 - TV7025	1/3“ Sony ExView CCD	71°	UVV	41

The inconspicuous spy

These built-in/mounted cameras with their inconspicuous design are perfectly suited for installing in suspended ceilings. With a small diameter of only 45 mm, these cameras fit perfectly into the opening of a halogen spot. The adapter included in the scope delivery also allows installation by mounting.
You have two version at your disposal. Common to both of them is the combination of excellent image quality and extraordinary light sensitivity (0.1 or 0.2 lux). The CCD camera module can swivel both vertically and horizontally.

Inconspicuous and easy to handle

With the aid of the Eyseo mini-pin-hole camera, concealed video surveillance is very easy. Thanks to its dimensions, the camera will fit into a cigarette box or alike. Combined with the mini-digital recorder (page 68), you can set up a video surveillance system quickly and easily in just few minutes. Of course, the camera can also be used in bookcases or cabinets.

Eyseo installable/attachable cameras

Conspicuously good images with an inconspicuous camera: With dimensions of 51 x 45 x 45 mm and a weight of 170 g, you can use this camera as an ideal flush-mounted camera. In addition to halogen spots, the Eyseo mounted camera is inconspicuous. The integrated pin-hole lens has a focal length of 3.7 mm and the horizontal angle of view is 71°. You can manually set the horizontal and vertical position of the camera module.

- 1/3“ SONY Super HAD CCD
- Integrated 3.7 mm pin-hole lens
- Resolution: 380 - 420 TV lines
- Horizontal angle of view: 71°
- Camera module horizontally and vertically removable
- Incl. adapters for installing
- Light sensitivity: 0.1 - 0.2 lux (F2.0)
- Electronic Shutter (ELC)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Colour: Automatic White Balance (AWB) and Digital Signal Processor (DSP)
- Voltage/power: 12 VDC / max. 4 W
- Dimensions (HxØ): 51x45 mm

Incl. flush-mount and mount adapter

Article number	TV7018	TV7019
Resolution	380 TVL	420 TVL
Colour - B/W	Colour	B/W
Light sensitivity for F2.0	0.2 lux	0.1 lux
Horizontal angle of view	71°	
Protection class	IP50	
Dimensions (HxØ) in mm	51x45 mm	
Power consumption	max. 4 W	max. 4 W

Eyseo mini-cameras

Even in the smallest and most conspicuous hiding places, you can install this mini-camera with its splendid optics. Whether in a cigarette box or in a package, whether in an empty mobile phone case or in a bag: there is no limit to the imagination when it comes to installing this camera. And you get outstanding surveillance images despite the extremely small design.

- 1/3“ SONY Super HAD CCD
- Integrated 3.7 mm pin hole lens
- Resolution: 380 - 420 TV lines
- Horizontal angle of view: 71°
- Vertically removable camera module
- Light sensitivity: 0.1 - 0.2 lux (F2.0)
- Electronic Shutter (ELC)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Colour: Automatic White Balance (AWB) and Digital Signal Processor (DSP)
- Voltage/power: 12 VDC / max. 4 W
- Dimensions (WxHxD): 36x36x30 mm

Eyseo super mini-camera

Incl. installation frame

The applications for the Eyseo super mini-colour camera are almost unlimited. At home, in the office or in the car. Don‘t make any sacrifices when it comes to image quality: The integrated 3.7 mm pin-hole lens provides colour images with a resolution of 420 TV lines, the Digital Signal Processor guarantees excellent images with the high-quality Sharp CCD.

- 1/4“ Sharp CCD
- Integrated 3.7 mm pin-hole lens
- Resolution: 420 TV lines
- Horizontal angle of view: 71°
- Light sensitivity: 0.05 lux (F2.0)
- Incl. adapter rings for installing and attaching,
- Incl. mini-camera holder
- Electronic Shutter Control (ELC), Back Light Compensation (BLC), Automatic Gain Control (AGC), Automatic White Balance (AWB) and Digital Signal Processor (DSP)
- Voltage/power: 12 VDC / max. 2.1 W
- Weight: 17.5 g
- Dimensions (HxØ): 29.4x22 mm

Article number	**TV7020**	**TV7021**	**TV7150**
Resolution	420 TVL	380 TVL	420 TVL
Colour - B/W	B/W	Colour	Colour
Light sensitivity for F2.0	0.1 lux	0.2 lux	0.05 lux
Horizontal angle of view	71°		71°
Protection class	IP53		IP54
Dimensions (HxØ) in mm	36x36x30 mm		29.4x22 mm
Power consumption	max. 4 W	max. 4 W	max. 2.1 W

XXS video surveillance - also in the mobile sector

Anywhere where a miniature design and attractive appearance are needed, this camera shows its strengths. With its extremely compact dimensions, the Eyseo super mini-colour camera ensures video surveillance in size of a one-cent-coin. This camera serves its purpose in mobile applications as well. The images can be recorded and viewed directly via a portable mini-digital recorder.

► **Mini-digital recorder starting on page 68.**

Video surveillance permitted in Austrian taxis

The Austrian data protection commission has approved the Eyseo Super Mini Camera for video surveillance in taxis. A new field of business are mobile applications in combination with the mobile digital recorder from ABUS Security-Center (page 68).

Easy integration in systems

Board cameras can be integrated in production lines. In this case e.g. they control e.g. productivity and quality.

Eyseo super mini-board cameras

Smaller than three centimeters in square, the super mini-board cameras are ideally suited for concealed installation behind pictures, folders or in suitcases. With 480 TV lines, the camera provides outstanding images. With the integrated wide-angle lens, it provides a perfect, wide-angled overview.

- 1/4“ SONY Super HAD CCD
- Resolution: 480 TV lines
- Horizontal angle of view: 67°/108°/160°
- Light sensitivity: 2.0 lux (F2.2)
- Electronic Shutter (ELC)
- Automatic Gain Control (AGC)
- Automatic White Balance (AWB)
- Digital Signal Processor (DSP)
- Voltage/power: 12 VDC / max. 0.6 W
- Dimensions (WxHxD): 26x22x18 mm

Eyseo board cameras with pin hole lens

TV7107

The XXS video surveillance system with pin hole lens: this camera is extremely sensitive to light and ideally suited for concealed use indoors.

- 1/3“ SONY Super HAD CCD
- Incl. 3.7 mm pin hole lens
- Resolution: 380 - 600 TV lines
- Horizontal angle of view: 71°
- Light sensitivity: 0.1 - 0.4 lux (F2.0)
- Electronic Shutter (ELC)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Colour: Automatic White Balance (AWB) and Digital Signal Processor (DSP)
- Voltage/power: 12 VDC / max. 4 W
- UVV-Kassen certified (TV7107)
- Dimensions (WxHxD): 32x32x15 mm (B/W), 32x32x27 mm (colour)

Eyseo board cameras with miniature lens

TV7105

Benefit from a large angle of view thanks to the wide-angle lens and minimal design.

- 1/3“ SONY Super HAD CCD
- Incl. 3 mm wide-angle lens
- Resolution: 380 - 600 TV lines
- Horizontal angle of view: 96°
- Light sensitivity: 0.1 - 0.4 lux (F2.0)
- Electronic Shutter (ELC)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Colour: Automatic White Balance (AWB) and Digital Signal Processor (DSP)
- Voltage/power: 12 VDC/max. 4 W
- UVV-Kassen certified (TV7105)
- Dimensions (WxHxD): 32x32x15 mm (B/W), 32x32x27 mm (colour)

Article number	**TV7500**	**TV7501**	**TV7502**	**TV7102**	**TV7103**	**TV7106**	**TV7107**	**TV7100**	**TV7101**	**TV7104**	**TV7105**
Resolution	480 TVL			420 TVL	600 TVL	380 TVL	550 TVL	420 TVL	600 TVL	380 TVL	550 TVL
Colour - B/W	Colour	Colour	Colour	B/W	B/W	Colour	Colour	B/W	B/W	Colour	Colour
Light sensitivity	2.0 lux			0.1 lux	0.2 lux	0.2 lux	0.4 lux	0.1 lux	0.2 lux	0.2 lux	0.4 lux
Lens	2.7 mm	1.6 mm	1.22 mm	3.7 mm pin hole				3.0 mm miniature			
Horizontal angle of view	67°	108°	160°	71°				96°			
Dimensions (WxHxD) in mm	22x26x18 mm			32x32x15 mm		32x32x27 mm		32x32x22 mm		32x32x34 mm	
Certification							UVV				UVV

Swappable miniature lenses

Look at the world from a different angle of view! Using the flexibly usable, swappable lenses for Eyseo board-level cameras with a miniature lens.

Only for TV7100 , TV7101, TV7104, TV7105

Article number	TV7120	TV7121	TV7122	TV7123	TV7124	TV7125
Focal length	2.5 mm	4,3 mm	6.0 mm	8.0 mm	12.0 mm	16.0 mm
Horizontal angle of view	104°	60°	43°	33°	23°	19°
Aperture	F 2.0	F 2.0	F 2.0	F 2.0	F 2.0	F 2.5

Eyseo cameras in PIR housing

TV7029

The motion detector with eyes! This inconspicuous PIR housing conceals a powerful 3.7 mm pin hole lens.

- 1/3“ SONY Super HAD CCD
- Integrated 3.7 mm pin hole lens
- Resolution: 380 - 600 TV lines
- Horizontal angle of view: 71°
- Light sensitivity: 0.1 - 0.4 lux (F2.0)
- Perfectly covert in PIR detector housing
- Electronic Shutter (ELC)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Integr. Microphone
- Colour: Automatic White Balance (AWB) and Digital Signal Processor (DSP)
- Voltage/power: 12 VDC / max. 4 W
- Including wall/ceiling holders
- UVV-Kassen certified (only TV7029)
- Dimensions (WxHxD): 70x120x48 mm

Optional accessories:
CCTV switching power supply unit (TV7616)

Eyseo cameras in the smoke detector housing

TV7025

As inconspicuous as it gets! The camera is perfectly hidden in a smoke detector housing. The pin hole lens only needs an approximately 1 mm opening.

- 1/3“ SONY Super HAD CCD
- Integrated 3.7 mm pin hole lens
- Resolution: 380 - 600 TV lines
- Horizontal angle of view: 71°
- Light sensitivity: 0.1 - 0.4 lux (F2.0)
- Perfectly covert in smoke detector housing
- Electronic Shutter (ELC)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Colour: Automatic White Balance (AWB) and Digital Signal Processor (DSP)
- Voltage/power: 12 VDC / max. 4 W
- UVV-Kassen certified (only TV7025)
- Dimensions (HxØ): 120x60 mm

Optional accessories:
CCTV power supply (TV7616)

Complete concealed video systems

This PIR housing represents a complete video system: a mini-digital recorder and a camera. Data is saved on a SDHC card of up to 64 GB.

▸ **Mini-camcorder starting on page 76.**

CCTV switching power supply unit 1500 mA

This power supply fits to all Eyseo cameras.

- Voltage: 12 VDC
- Amperage: 1500 mA
- Euro plug connector

Article number	**TV7026**	**TV7027**	**TV7028**	**TV7029**	**TV7022**	**TV7023**	**TV7024**	**TV7025**
Resolution	420 TVL	600 TVL	380 TVL	550 TVL	420 TVL	600 TVL	380 TVL	550 TVL
Colour - B/W	B/W	B/W	Colour	Colour	B/W	B/W	Colour	Colour
Light sensitivity for F 2.0	0.1 lux	0.2 lux	0.2 lux	0.4 lux	0.1 lux	0.2 lux	0.2 lux	0.4 lux
Protection class	IP50				IP30			
Certification				UVV-Kassen				UVV-Kassen

Article number	**TV7616**

Network Cameras

World Wide Video: These trend-setters in the world of video surveillance are setting new standards in terms of image quality, mobile access to live images and operating comfort. The VMS Basic video management software is included with each IP camera!

eyseo.

Eyseo CMOS IP camera: Rated as the top camera in its class (dual-stream)

With the best camera in its class (Computer BILD), you can enter the world of networks - worldwide: With the new dual-stream function, you can now transmit live images over the Internet and on your mobile device! The best CMOS technology provides jitter-free images. The wide-angle lens, 16-channel free software (VMS Basic) and motion sensor ensure a wide variety of applications and operating convenience.

▶ **starting on page 44**

Eyseo CMOS pan/tilt IP cameras: Worldwide monitoring

Monitor and control entire rooms with one camera from around the world - with a pan range of 350° and an tilt angle of 90°! With a click of your mouse, you can direct the camera to the desired presets. Also dual-stream is included in this camera!

▶ **starting on page 45**

Eyseo IP variodome: 24 h surveillance with worldwide access

Whether in a shop, shopping center or plant - the IP dome is a reliable observer, providing video surveillance 24 hours a day - even when you are not on-site.

▶ **starting on page 48**

NEW

Progressive scan: The cutting-edge of IP

Extremely sharp details - thanks to the next generation of image scanning. The full-screen method eliminates line flickering and image blurring by 100%. The light sensitivity and backlight compensation reach a so far unachieved level of quality.

▶ starting on page 46

Video server: Dock analog cameras to the network

With the video server, you digititalize analog images, save them on a PC or on the network and use all of the advantages of digital video management with the intelligent VMS Basic video management software (included for free). This makes it possible to access your video data worldwide via your Internet browser or your mobile device.

▶ starting on page 49

only VMS Professional/ Enterprise

NEW

Video management software (VMS) designed for supreme usability

The ultimate in operating convenience - with high-end video management software: Up to 40 channels, realtime, real multitasking for simultaneously access of up to 10 users on identical data. The users can manage everything in an intuitive interface. VMS Basic is included with all Eyseo IP cameras and video servers - and upgradeable to the Professional or Enterprise version at any time.

▶ starting on page 47

World Wide Video

The network technology is the future of video surveillance. The reasons are obvious: Low installation efforts, convenient and easy management of the video data on the PC and a flexible access to the images via LAN or Internet. With the flexible and universally solutions from ABUS Security-Center, you always have your video surveillance close at hand. In addition to the high-quality network cameras, analog cameras can also be integrated without problems.

Peace of mind everywhere you go

Worldwide access to video streams, even on mobile devices! As such, you always know what is going on, any time, anywhere. Enjoy your freedom with the good feeling of security.

How to get mobile access:

In the multimedia menu of the mobile device, most models have the menu item „Open URL.“ Enter rtsp://<your IP-address of your camera>/<User>. The video data begins to download. With a delay of about 5 seconds, the images are then displayed on the display of your mobile device. That‘s how easy worldwide and mobile video surveillance is!

Eyseo IP Ecoline CMOS camera

Computer Bild Test-Sieger

Edition 23/2006 (30.10.), TV7204 (W-LAN)

With the top-selling Eyseo network camera, you are well informed, where ever you are. Regardless of whether you are using a LAN, the Internet or a mobile device: One click is all it takes to get extremely sharp live images (640x480 pixels). Thanks to the HQ CMOS technology, brilliant video images and audio streams are transferred to the local network or Internet up to real-time (max. 25 images/s). The latest innovation: Dual-stream function for maximum flexibility. This function allows parallel streaming, one in high resolution for recording and one in low-res for mobile devices via RTSP. Each of the two streams can receive MPEG-4 or MJPEG-compressed video data and each can be accessed through different ports. Via the new, VMS software (included), you can simultaneously display 16 network cameras, record, play, export data and access the data via the network. The camera is available as LAN and as WLAN version (IEEE 802.11g).

- 1/4“ HQ CMOS sensor
- Light sensitivity: 1.5 lux (F2.0)
- 4 mm wide-angle lens
- Back Light Compensation (BLC)
- Electronic Shutter (ELC)
- Automatic White Balance (AWB)
- Automatic Gain Control (AGC)
- Private zone masking
- Voltage 5V/DC (incl. power supply unit)
- Dual-stream technology
- Compatible with Internet Explorer and Firefox (Firefox without ActiveX)
- Protected WLAN (WPA2 encryption)
- Integrated microphone
- Network: depending on the model: 10/100 BaseT-Ethernet (RJ45) or WLAN 802.11g
- Protocols: TCP/IP, HTTP, FTP, SMTP, NTP, DHCP, DDNS, RTSP
- Selectable image size and compression
- Image rate max. 25 images/s (for all resolutions)
- Max. resolution: 640x480 pixels
- Date/time display
- Optional bandwidth limiting
- 2-colour LED for status display
- PIN-code protection for user and admin
- E-mail / FTP-notification in the event of an alarm
- UVV-Kassen certified
- Dimensions (WxHxD): 73x114x35 mm

Scope of delivery:
Network camera, Eytron VMS Basic Software, manual, wall arm, power supply unit

Article number	TV7203	TV7204
Version	LAN (RJ45 BaseT-Ethernet 10/100)	LAN / WLAN 802.11g (54 MBit/s)
Certification	UVV-Kassen certified	UVV-Kassen certified (LAN)

Eyseo IP Ecoline CMOS pan / tilt camera

Due to the pan/tilt function, this Eyseo dome camera. With a maximum pan range of 350° and an tilt range of 90°, this dome provides an ideal overview and - the advanced dual-stream technology. This multi-talent, with its 1/4“ HQ CMOS image sensor and the proven 4 mm lens of the Eyseo CMOS TV7204 relies on award-winning technology (Computerbild best in its class 23/2006). You can see the results whenever and wherever you are: on the Internet or on a mobile device. You can control the camera with the Internet Explorer or the video management software. This allows you to keep an eye on properties of all sizes around the clock. The dual-stream function allows you to do two things at the same time: Receiving on mobile device via RTSP and a high-resolution real-time video/audio stream.

- 1/4“ colour HQ CMOS image sensor
- Max. resolution 640x480 pixels
- Modern MPEG-4 compression method
- Privacy zone masking
- Dual-stream technology
- Compatible with Internet Explorer and Firefox (Firefox without ActiveX)
- Protected WLAN (WPA2 encryption)
- 20 preset positions can be saved
- Remotely controllable pan/tilt head (350°/90°)
- Digital zoom
- 3 LEDs for status display
- E-mail / FTP-notification in the event of an alarm/motion
- Transmission of live images to mobile telephones by means of RTSP protocol
- Built-in 4 mm / F2.0 lens
- Built-in motion sensor with prealarm image memory
- Real-time transmission (25 images/s) of video and audio streams
- Voltage: 12 VDC, max. 1.5 A (incl. power supply unit)
- UVV-Kassen certified
- Dimensions (HxØ): 100x110 mm

Scope of delivery:
P/T network camera, network adapter, wall/ceiling holder incl. screws, Eytron VMS Basic software

One click for the perfect overview

One special highlight of the new pan/tilt network camera is the intuitive on-screen control. With a simple mouseclick on the picture displayed, you can move the camera in the desired direction. As such, you have always the perfect overview with only one camera.

Protective housing for Eyseo IP Ecoline CMOS pan/tilt camera

Camera not in the delivery kit

With the outdoor housing for the Eyseo pan/tilt IP camera, you are not just protecting the camera against physical threads, also against wind and rain. The result: sharp images in any kind of weather.

- Quick and easy installation
- Dust-proof housing
- Protection class: IP66
- Also available as a WLAN model
- Suitable for TV7230/TV7240

Optional accessories:
Suitable wall mount for outdoor housing (TV7613)

Article number	TV7240	TV7230
Version	LAN (RJ45 BaseT-Ethernet 10/100)	LAN / WLAN 802.11g (54 MBit/s)
Certification	UVV-Kassen certified	UVV-Kassen certified (LAN)

Article number	**TV7231**	**TV7241**	**TV7613**
Version	WLAN model	LAN model	Wall holder

Progressive scan

Using progressive scan technology the camera takes an entire image, instead of interlacing half images. This eliminates line flickering completely. In this way, progressive scan prevents blurring of the camera image and ensures even sharper images. Another great feature of the Progressive Scan IP camera is the backlight behavior and the high degree of light sensitivity.

Eyseo IP Profiline progressive scan camera

applied for

Accessories for IP cameras:

Outdoor housing

This water-proof housing is the perfect outdoor protection for WLAN/IP cameras to the external antenna. The range of the WiFi camera is increased ,simply unscrew the antennas and connect the camera to the antenna of the housing.

- Frequency: 2.4 GHz
- Antenna: 0 dB
- Voltage: 230 VAC
- Integrated 230 VAC heating with thermostat
- Temperature range: - 20°C to +55° C
- Dimensions (WxHxD): 140x110x400 mm

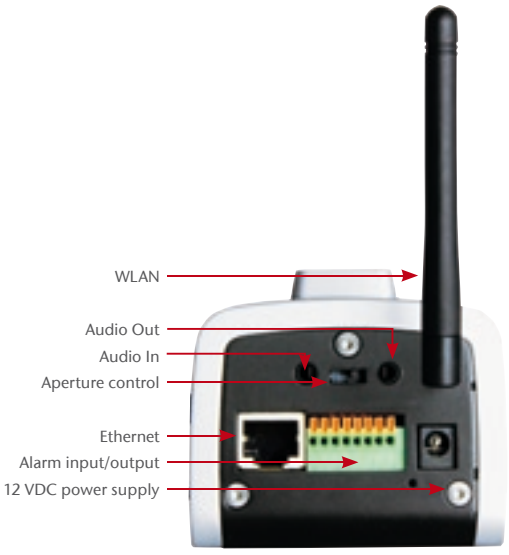
Scope of delivery:
Housing, antenna, cable, 12 VDC/1A power supply unit, wall arm

Article number	TV5730 (for WLAN)

An innovation that video professionals will love: With progressive scan, this IP camera takes extremely sharp images of high quality. Streams video and audio in real-time (max. 25 image/s) into the LAN, Internet or via RTSP protocol to mobile devices and both at the same time, thanks to dual-stream. Another time-saving feature is Power Over Ethernet (POE). With an integrated motion, detector alarm input and remotely activatable relay output, a wide variety of applications can be realised.

- Sony Progressive Scan CCD
- Dual-stream function
- Alarm input, switching output
- 2.9 - 8.2 mm vario-focal auto-iris lens
- Integrated microphone
- PoE compatible (TV7220/TV7222)
- Full VGA resolution
- Removable IR cut filter for day/night function (TV7222/TV7223)
- Progressive scan technology for high-resolution, flowing video streams
- Network (depending on the model): 10/100 BaseT-Ethernet (RJ45) or WLAN (IEEE 802.11g)
- Incl. Eytron VMS Basic software

Scope of delivery:
Camera, incl. lens, Eytron VMS Basic software, wall arm, power supply



Article number	**TV7220**	**TV7222**	**TV7221**	**TV7223**
Version	LAN (RJ45 BaseT-Ethernet 10/100)		LAN / WLAN 802.11g (54 MBit/s)	
Automatic Day/night switch		IR cut filter for day/night function		IR cut filter for day/night function

Eytron VMS Video management software

only VMS Professional/ Enterprise

Powerful video management software (VMS)
Depending on the requirements, the high-end system is available in three scalable versions and it is therefore suitable for projects of any size.

VMS-Basic video software (FREE software)
- Efficient software solution for Eyseo IP cameras and Eytron PCI-cards
- 24 h surveillance with diverse control functions and security functions
- Up to 16 network cameras from ABUS Security-Center can be integrated
- Recording of video images in real-time (400 images/sec.)
- User-friendly graphical user interface (video management center)
- Very easy to operate by means of the video puck (control tool via mouse)
- Innovative preview bar with drag&drop function
- Simultaneous recording and live display of all images (multi-tasking)
- Comprehensive selection options, e.g. resolution for each camera
- Individual defining of relevant areas of the images
- Definition of a weekly recording program
- Remote access via Internet browser and PDA
- Password protection
- Included with all Eyseo IP cameras, Eyseo dual-stream video server and Eytron PCI cards from ABUS Security-Center

VMS Professional video software
- Integration of IP cameras from other manufacturers (Axis, Mobotix, ACTi, RTSP)
- Integration of analog cameras via dual-stream video server
- Playback on up to two monitors (depending on graphics card)
- Remote access via Internet browser (3 users simultaneously) and PDA

VMS Enterprise video software
- Integration of up to 64 IP cameras (incl. other manufacturers)
- Playback on up to four monitors (depending on graphics card)
- Remote access via Internet browser (10 users simultaneously) and PDA
- „Lost and found“ function: Automatic detection of dropped off objects (e.g. suspicious suitcases at airports, train stations, etc.)
- Speeddome auto-tracking: Detects motion and automatically tracks it
- Cover check: Automatic An alarm sounds if the view of a camera is blocked
- Contortion check: Monitoring of whether a camera position has been altered
- Defocus check: Detection of when the recording is no longer sharp

Our tip: The VMS Basic video management software is included free of charge in the delivery kit for all Eyseo IP cameras, the Eyseo dual-stream video server and the Eytron PCI video surveillance cards.

► **You can find more detailed information on the video management software VMS Basic/Professional/Enterprise on page 60.**

FREE: Eytron VMS Basic is included with all Eyseo IP cameras

The high-end solution from a single source: the scope of delivery of every IP camera from ABUS Security-Center will include the VMS software for professional video management. The intuitive user interface of this high-end system is a digital video management center with countless convenience and security functions. Powerful compression methods such as, H.264 MPEG-4 and MJPEG are available. The software has been developed in Germany and supports Eyseo and Eytron products from ABUS Security-Center incl. progressive scan network cameras.

Multitasking in perfection

The new Eytron VMS software ensures simultaneous recording, live monitoring, playback, backup and network access - all at the same time. The innovative „mixed mode“ allows the playback of one channel while simultaneously monitoring all of the other channels in live mode

Intuitive user interface

Smoothly change from full-screen view to overview mode with one move of the mouse using the video puck (digital control tool on the mouse pointer). An innovation by the ABUS Security-Center engineers to easily change the display of the monitored cameras on the fly. On the right hand-side a preview of all selectable cameras offers total control to the user. For monitoring just drag and drop the picture to the left and get live pictures.

Eyseo IP Profiline day/night infrared vario-dome

The Eyseo IP dome camera is especially useful in shops or shopping centers and alike. The integrated IR LEDs allow you to use it at night as well. The IP dome is also extremely well protected against attacks of external force.

- 1/3“ Sony HAD CCD
- Light sensitivity: 0.05 lux 0 lux with IR
- IR LEDs with 10 m range
- Automatic IR cut filter (day/night function)
- Vandal proof, IP66
- Resolution: 520 TV lines
- Integrated 3.6 - 9 mm (F1.6) vario-lens
- Horizontal angle of view: 35 - 78°
- BLC, ELC, AWB, DSP
- Microphone and speaker connections
- Browser: Internet Explorer 5.x and later
- Network: 10/100 BaseT Ethernet (RJ45)
- Protocols: TCP/IP, HTTP, FTP, SMTP, NTP, DDNS, DNS, UPnP, DHCP
- Resolution: QCIF 176x144, CIF 352x288 or 4CIF 704x576 pixels
- Optional limiting of the bandwidth (compression method: MPEG4 or MJPEG)
- 1 alarm input, 1 relay output
- PIN-code protection for user and admin
- Pre- and post-alarm image memory
- Automatic E-mail / notification in the event of an alarm
- Dimensions (HxØ): 120x137mm
- UVV-Kassen certified

Scope of delivery:
Dome camera, incl. power supply, Eytron VMS Basic software

Eyseo IP Profiline day/night infrared fixed dome

It provides a perfect overview and is capable of monitoring very large areas. With the integrated IR LEDs, it can also be used in darkness. In addition to outstanding image quality, the IP dome provides numerous surveillance and alarm functions. You have an alarm input and a relay output at your disposal. An e-mail can be sent in the event of an alarm.

- 1/3“ Panasonic CCD
- Light sensitivity: 0.5 lux (0 lux with IR)
- IR LEDs with 10 m range
- Vandal proof design, IP66
- Resolution: 380 TV lines
- Integrated 3.6 fixed lens (F2.0)
- Horizontal angle of view: 78°
- BLC, ELC, AWB, DSP
- Microphone and speaker connection
- Browser: Internet Explorer 5.x and later
- Network: 10/100 BaseT Ethernet (RJ45)
- Protocols: TCP/IP, HTTP, FTP, SMTP, NTP, DDNS, DNS, UPnP, DHCP
- Image overlay: Date and time
- Resolution: QCIF 176x144, CIF 352x288 or 4CIF 704x576
- Optional limiting of the bandwidth (compression method: MPEG4 or MJPEG)
- 1 alarm input, 1 relay switching output
- PIN-code protection for user and admin
- Pre- and post-alarm image memory
- Automatic E-mail / notification in the event of an alarm
- Dimensions (HxØ): 120x137 mm

Scope of delivery:
Dome camera, incl. power supply unit, Eytron VMS Basic software

Automatic switch-over from day to night mode

High degree of light sensitivity at night, even IR light

Article number	TV7219	TV7218
Image sensor	1/3“ Sony HAD CCD	1/3“ Panasonic CCD
Resolution	520 TVL	380 TVL
Automatic day/night switch	Electro-mechanically removable IR cut filter	Electronical switch-over
Light sensitivity	0.05 lux (0 lux with IR)	0.5 lux (0 lux with IR)
Lens	3.6-9.0 mm vario-lens (F1.6)	3.6 mm fixed lens (F2.0)
Horizontal angle of view	35°-77°	78°
Certification	UVV-Kassen	

Eyseo IP Profiline dual stream video server

Front view

Rear view

Bring analog video data into the digital world! This will immediately give your customer several advantages: The advantages of analog camera technology and worldwide access via the network.

The highlight of the video server is the dual-stream function: The image data is sent in high resolution as an MJPEG and (simultaneously) as an MPEG4 stream for the transmission by RTSP. This means: Live images with sound can be displayed worldwide by mobile devices. At the same time, the data is sent to the local network in high resolution.

Other advantages of the dual stream video server:

- Firmware with signed ActiveX - element
- Compatible with Internet Explorer and Firefox (Firefox without ActiveX)
- Privacy masking for protected of the image areas
- Supports RTSP and DDNS
- In the event of an alarm, individual images or video clips from the analog camera are sent to a pre-defined e-mail account or FTP server (up to three combinations are possible)

Technical data:

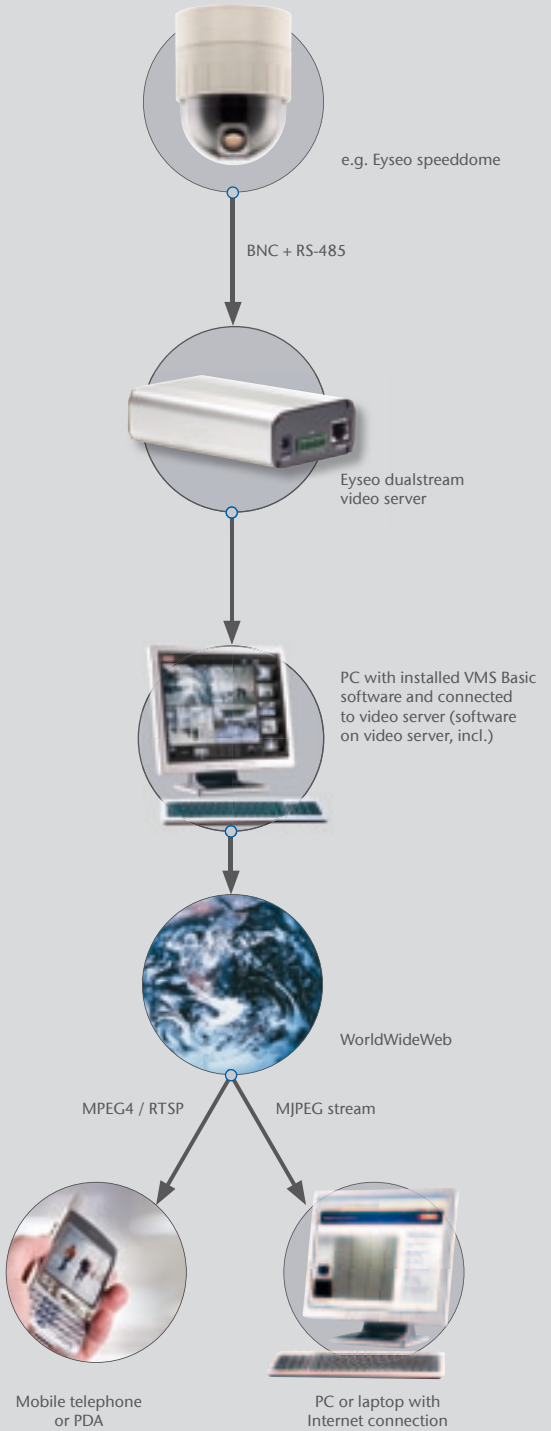
- Real-time streaming in 4CIF resolution (full-screen)
- Max. resolution 704x576 pixels
- RS-485 interface for connecting speeddomes (Pelco protocol, etc.)
- Transmission of live images to mobile devices by RTSP
- PIN-code protection for user and admin
- Pre- and post-alarm image memory
- Integrated control input/output
- Integrated audio input
- 1 alarm input: 12 VDC, 50 mA
- 1 transistor output: 40 VDC, 400 mA
- Max. image rate: 25 images/s
- Protocols: TCP/IP, HTTP, FTP, SMTP,NTP, DDNS and others
- Remote parameterization
- Network: 10/100 BaseT Ethernet (RJ45)
- Built-in motion detector with prealarm image memory
- UVV-Kassen certified
- Dimensions (WxHxD): 205x65x260 mm

Scope of delivery:
Video server, power supply, Eytron VMS Basic software, mount

Article number	TV7206

Include special cameras into the network too!

Whether they are miniature, built-in or underwater cameras: With the Eyseo video servers, you also quickly and easily bring the video and audio streams from your special cameras into the network. This saves you a costly re-installation and the procuring of new cameras. You will benefit from surveillance images regardless of time and location.


e.g. Eyseo speeddome
BNC + RS-485
Eyseo dualstream video server
PC with installed VMS Basic software and connected to video server (software on video server, incl.)
WorldWideWeb
MPEG4 / RTSP
MJPEG stream
Mobile telephone or PDA
PC or laptop with Internet connection

Eytron Video Surveillance Systems

High-end, top recorder technology - the result of a consistent philosophy: The hybrid digital recorder (HDVR) was developed as a powerful platform for analog and digital video recording. Thanks to its intuitive user interface, the enormous range of functions can be used by any user right away.

- One of the best performing digital recorders
- 40 real-time channels in full-screen resolution (4CIF)
- Up to 1,000 images/s framerate (recording & replay)
- Analog and IP-cameras combined in one system (hybrid function)
- Integrated video management software VMS

A recording system for every requirement. In addition to our flagship, the Eytron HDVR, the Eytron range of products has a wide selection of models for all requirements and any budget:

- The latest generation of PCI surveillance cards offers the best selection for changing a standard PC into a video surveillance center
- Free software VMS (Basic) included - with all Eytron PCI surveillance cards
- VMS software (professional/enterprise) as a stand-alone version for upgrading existing surveillance systems with top functions
- The latest stand-alone recorders solve a wide variety of applications
- Smart combination devices such as the “All-In-One” Digital Recorder and a wide range of accessories complete our product offer.

eytron.

Hybrid Digital Recorder HDVR: The Masterpiece

A system for up to 40 cameras: 32 analog and 8 IP with 1,000 images/sec. multi-tasking, embedded video management software and much more – top performance for your project business!

▶ starting on page 52

New generation of PCI cards: Now with FREE VMS Basic software!

Turn any standard PC into a digital recorder - with up to 16 real-time channels.

Pages 58, 60, 61

Network digital recorder NVR: A lot of power for IP video

Conquer the market of IP-based video surveillance! With a system of up to 24 IP cameras! Maximum performance even for cameras of other manufacturers!

▶ starting on page 54

Video management (VMS): IP software – Made in Germany

Eytron VMS Professional and Eytron VMS Enterprise are the Choice for multi-user, multilocation applications – allowing also the use of IP cameras from other manufacturers.

▶ Pages 60, 61

NEW

JPEG2000 DVR: Professional recording with massive compression!

Ultimate image quality, Internet accessable and many security functions! Easy operation via jog-shuttle or remote control – the right choice for powerful stand-alone solutions!

▶ Pages 62, 63

NEW

MJPEG "All-In-One" DVR: The plug'n play solution!

Compact design and ready to go. 4-channel digital recorder and 8" TFT monitor in one device! For use when space is scarce, e.g. kiosks, gas stations, etc. – or for short-term applications at trade fairs, events, concerts, etc.

▶ Pages 66,67

NEW

Accessories: For added value!

More disk space. Integrate cash point data in the video image or connection for TFT monitors and many things more.

▶ Pages 63,64

NEW

MJPEG DVR: Great value for money!

The stand-alone solution for tight budgets: Save well compressed video data on a SATA hard-drive. Back-up via interfaces. Super quick installation: Connect the cameras and the monitor and you are ready to go.

▶ Pages 64,65

Eytron Profiline HDVR hybrid digital recorder

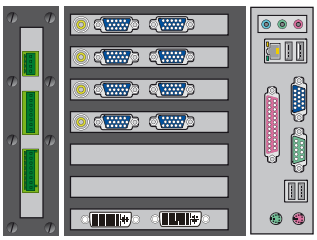
High technology with powerful functions and perfect flexibility all in one system! The HDVR makes superior technology easy-to-handle for all users - and is a milestone in high-end recording. The system was designed for total flexibility - allowing the use of the HDVR in almost any location. The result: A new dimension in terms of performance, usability and flexibility.

- Analog cameras and IP cameras (incl. megapixels) in one system
- Real-time recording and live monitoring of up to 40 channels (total of 1,000 images/sec.)
- Resolution of all channels in 4CIF full-size (704x576 Pixel)
- Highly efficient H.264 compression for analog video data
- Simultaneously: Monitor, record, export and access the network
- High-end components with advanced cooling management designed for continuous operation (24/7/365)
- Pre-installed video management software
- Powerful functions: Privacy masking, distortion protection, defocus protection, coverage surveillance, lost & found object, auto-tracking function, 8-channel PoS function
- Integrated web server for Internet Explorer, Firefox, Safari, Opera (plug-in-free)
- Control panel, mouse and network cable included in scope of delivery
- 6 remote clients and remote PDA access
- UVV-Kassen certified
- All technical details: See table on page 55

Best of breed in resolution: Full size (704x576) in real-time!
Thanks to H.264 compression, you get real-time images (25 fps) in full-screen format (4CIF, 704x576) - while all channels record simultaneously! This allows you to capture even the smallest detail!

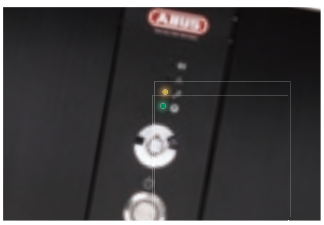
Top performance: Video-power without compromises!
A platform for all cameras: Simultaneously monitor, record and playback 40 channels (32 analog, 8 IP) at 1,000 images/s ! The user interface and dual-monitoring make it very easy to master a lot of technology

German engineering: Designed for continuous operation!
Reliable and failure-safe with high-end components that are designed for continuous operation (24/7 HDD with high MTBF, etc.). Perfect cooling management protects the system from over-heating.



Interfaces: For cameras, recorders and alarms!
Analog and IP cameras (ABUS and third-party manufacturer) in one system - including additional recorders, alarm inputs and outputs! Access, backup and integration of IP video sources via the network!

Perfect in any location; In the server rack or on your desk!
In the 19" server rack: Service during operation (HDD, cooling fans accessible from front). Thanks to max. cooling and low-noise technology, it can also be used in any office!



A self-monitoring system: Failure-safe by status display!
Operating temperature, cameras, hard-disks, etc. are permanently monitored by the system. The status is displayed by LEDs (OK - Warning - Alarm). This allows you to act before a system failure.

Video Management Software: Embedded intelligence

The pre-installed software turns the HDVR into an easy to use video management center. It offers you an ideal overview of your system - a few mouse clicks are sufficient to manage all cameras, video data and alarm functions.

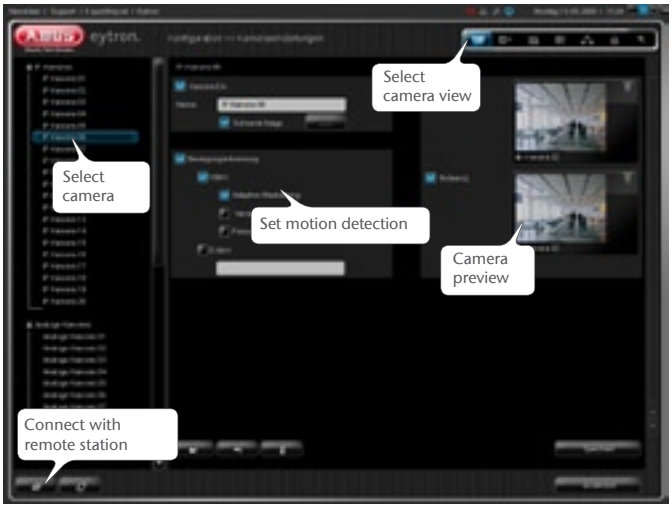
- **Maximum practicality, all inclusive:** Functions that you have to pay extra for with other manufacturers are already activated, such as GAA/PoS protocols (ATMs, cash point data).
- **Perfect plug & play:** Switch on and get started, plug in and set up the cameras; without a burdensome installation or long boot-up of software and without installing hardware and drivers.
- **Self explaining system:** A user interface that reflects cutting-edge research findings allowing intuitive usage and "learning by doing" - you simply save your preferred settings as favorites.

Intuitive user interface: all channels in view with just a few clicks

Start sequencer
Select camera view
Camera tool: Smoothly switch from full-screen (move mouse down and to the right) to overview (up and to the left).
thumbnail preview
Mode switch-over: Live/Live'n Play/Play
Joystick for dome control

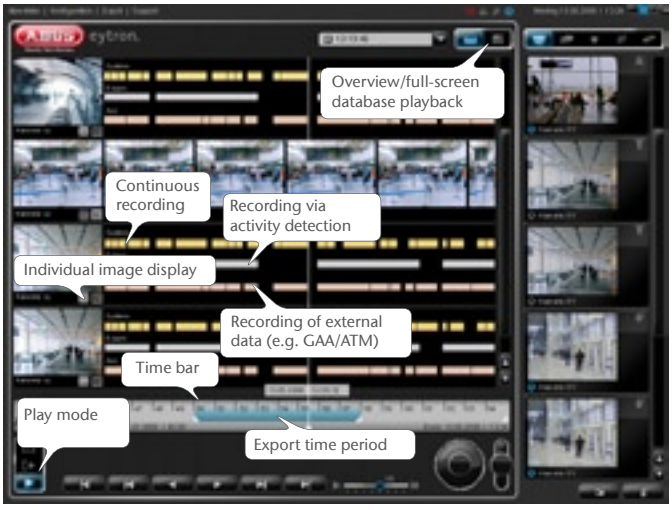
Nearly all of the functions of the powerful software can be controlled with just a few mouse clicks:
- Smoothly change from full-screen view to overview mode by moving the mouse using the camera puck.
- Position live images from one or more cameras on the monitor as you like
- Remaining channels are displayed as a thumbnail preview and can be pulled into the live-window using the drag'n drop function of the mouse

Easy administration: set up cameras and alarm detectors on the first try



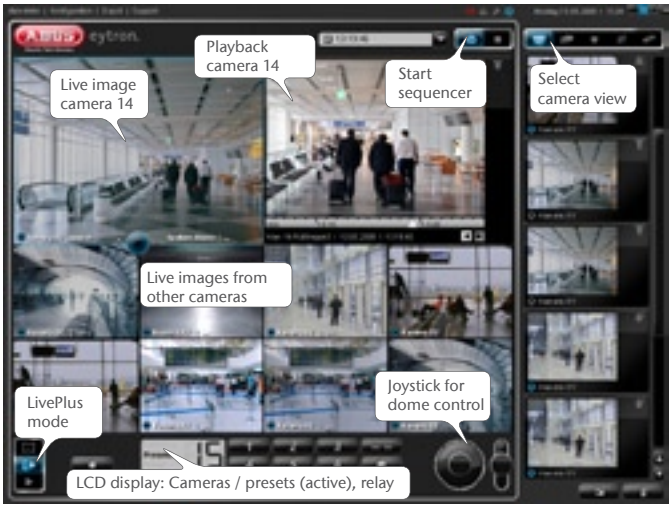
Effortlessly integrate any cameras into your system:
- Define the desired resolution, image areas (motion detectors), pan/tilt function, etc. for each individual camera
- Have the right settings for each camera in one view
- Re-use existing settings for new devices (cameras, relays, etc.) and have always full overview - even using 40 cameras

Top security and analysis functions: respond always immediately correctly



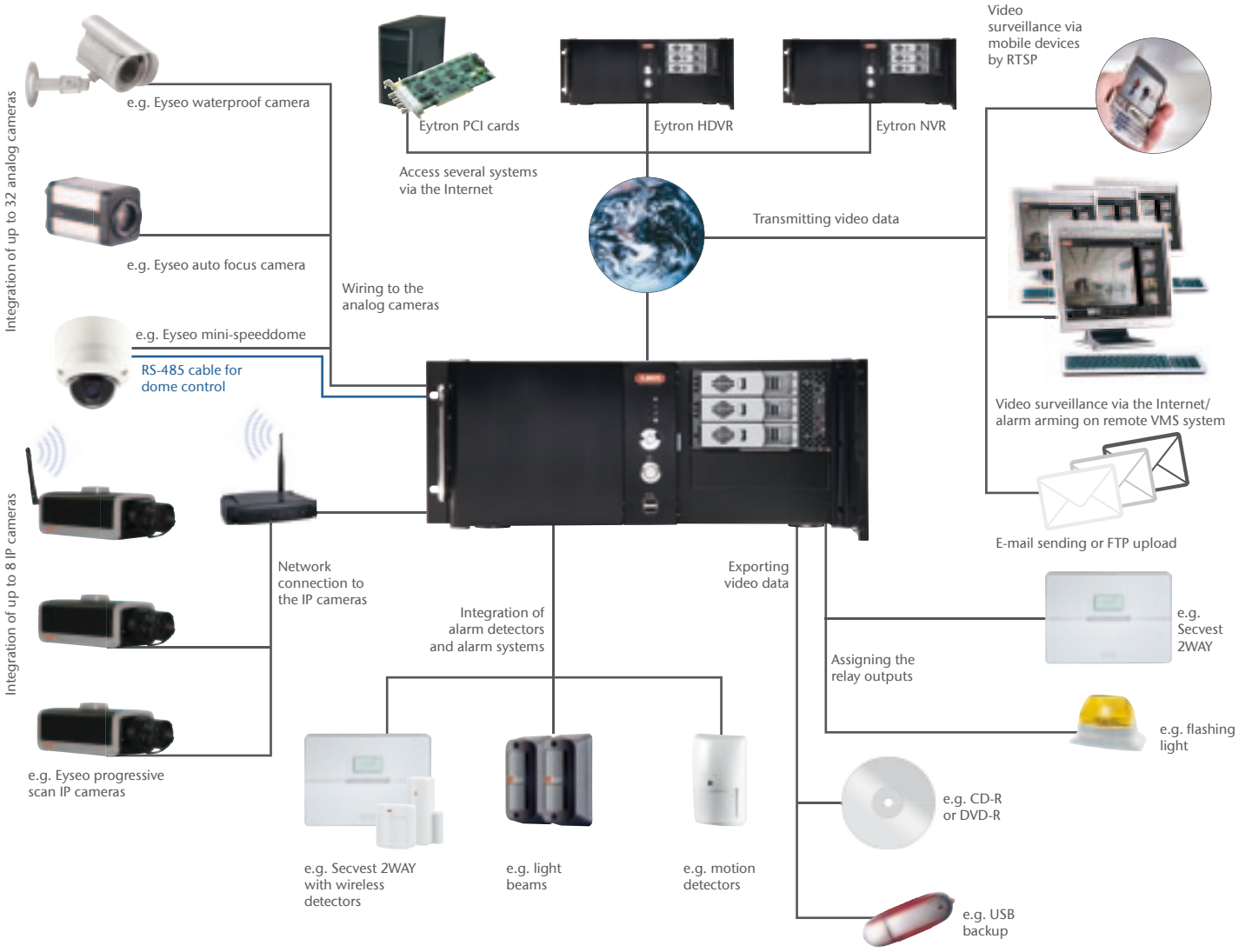
Quick and convenient clarification:
- You can find critical moments in the video archive based on a variety of criteria
- Search options: search by calendar, time, camera, detector, ATM, etc.)
- Solve cases in a mouse click - saving you from manually searching the archive
- All of the cameras are monitored 24 hours: Alarm when motion is detected, cover/ contortion of a camera, etc. - you start the clarification as early as possible

A surveillance center not just for recording: live view, playback and network access at a glance!



Everything in view on one screen (Live'n Play mode):
- Play a recording while watching all of the other channels live
- Combine local cameras, cameras on the LAN or WAN in one view

Options to connect of the Eytron HDVR hybrid digital recorder to: Analog and IP cameras as well as alarm components


Integration of up to 32 analog cameras
e.g. Eyseo waterproof camera
e.g. Eyseo auto focus camera
e.g. Eyseo mini-speeddome
RS-485 cable for dome control
Wiring to the analog cameras
Eytron PCI cards
Eytron HDVR
Eytron NVR
Access several systems via the Internet
Transmitting video data
Video surveillance via mobile devices by RTSP
Video surveillance via the Internet/ alarm arming on remote VMS system
E-mail sending or FTP upload
Integration of up to 8 IP cameras
e.g. Eyseo progressive scan IP cameras
Network connection to the IP cameras
Integration of alarm detectors and alarm systems
Exporting video data
Assigning the relay outputs
e.g. Secvest 2WAY
e.g. flashing light
e.g. CD-R or DVD-R
e.g. USB backup
e.g. Secvest 2WAY with wireless detectors
e.g. light beams
e.g. motion detectors

H.264 compression – The benchmark for highest requirements: Simultaneous recording and playback of up to 32 analog channels!

More details and true colours - with a data rate, which allows you to simultaneously record and playback 32 real-time channels. Because of the high degree of efficiency, H.264 is the number one choice for compressing analog video data:

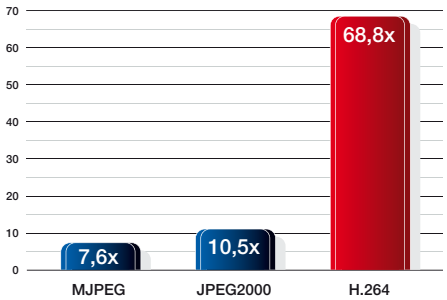
- Transmitting data takes approximately only 0.14 of the time in compression to JPEG2000
- The low data rate allows the real-time transmission of 32 channels via a standard network (Gigabit Ethernet)
- H.264 offers a substantial increase in storage capacity in contrast to other compression methods

H.264 compression compared to MJPEG and JPEG2000: (recording in 4CIF, 704x576 pixels, 25 images/s)

Comparative features	Parallel channels	No compression	MJPEG	JPEG2000	H.264
Data rate (megabits per second)	1	137.5 MBit/s*	18 MBit/s*	13 MBit/s*	2 MBit/s*
Data rate (megabits per second)	32	4,400 MBit/s*	576 MBit/s*	416 MBit/s*	64 MBit/s*
File size (1 minute video)	1	1,031 MB	135 MB	97.5 MB	15 MB
File size (1 minute video)	32	33 GB	4.3 GB	3.1 GB	0.48 GB
Max . Duration of recording (3x 1 TB HDD)	1	48 h	370 h	512 h	3,333 h
Max. duration of recording (3x 1 TB HDD)	32	1.5 h	11.6 h	16 h	104 h

*) Simultaneous recording/playback of 32 channels via 100 MBit LAN not guaranteed

Compression factor:



The enabler for your project business: perfect solutions for each application

Added Value: With the HDVR, you always have an advantage when bidding for projects. Due to the large selection of HDVR models, you can always choose the model which will win you the project at the best price - this is also a substantial added value for the user of the video surveillance system.

Convincing figures: technical data and performance characteristics of the HDVR models

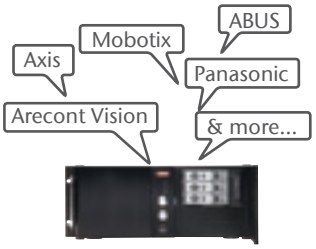
Article number	TV3000	TV3010	TV3020	TV3030	TV3001	TV3011	TV3021	TV3031
Recorder model	HDVR 16 (8+8) , 1TB	HDVR 24 (16+8), 1 TB	HDVR 32, (24+8); 1TB	HDVR 40, (32+8); 1TB	HDVR 16 (8+8); 3TB	HDVR 24 (16+8); 3TB	HDVR 32 (24+8); 3TB	HDVR 40 (32+8); 3TB
Analog video inputs	8 x BNC	16 x BNC	24 x BNC	32 x BNC	8 x BNC	16 x BNC	24 x BNC	32 x BNC
IP video inputs	8	8	8	8	8	8	8	8
Image rate per channel	25 (real time)	25 (real-time)	25 (real-time)	25 (real-time)	25 (real-time)	25 (real-time)	25 (real-time)	25 (real-time)
Video output	1 x composite, 2 x DVI-I	2 x composite, 2 x DVI-I	3 x composite, 2 x DVI-I	4 x composite, 2 x DVI-I	1 x composite, 2 x DVI-I	2 x composite, 2 x DVI-I	3 x composite, 2 x DVI-I	4 x composite, 2 x DVI-I
Hard-disk capacity	1 TB HDD	1 TB HDD	1 TB HDD	1 TB HDD	3 TB HDD	3 TB HDD	3 TB HDD	3 TB HDD
Operating mode	Live monitoring, recording, playback, data export, network access							
Hybrid operation	Mixed operation of analog and IP cameras using one Graphical user interface							
Resolution	CIF, 2CIF, 4CIF/D1; can be separately adjusted for each camera							
Compression method for analog channels	H.264							
Compression method IP channels	MPEG-4, MJPEG; for each IP camera							
Bitrate per channel	0.25, 0.5, 1.0 / 1.5 / 2.0 MBit (can be individually adjusted for each camera - depending on available network bandwidth and number of simultaneously used channels)							
Network	1 x RJ45, 10/100/1000Mbps							
Network protocol	The following are supported: IPv4, TCP, HTTP, DHCP, NTP, UDP, RTSP							
Software	Eytron VMS Enterprise HDVR							
Security functions	Privacy masking, distortion protection, defocus protection, coverage surveillance, Lost & found object, auto-tracking function, 8-channel POS function and much more							
Web server	Integrated web server, compatible with Internet Explorer, Firefox, Safari, Opera (plug-in-free)							
Operating system	Windows XP embedded							
Password protection	Different authorization levels, database access, camera access and configuration rights for each user can be freely defined, dual login function for four-eyes principle							
Control center function	Display infinite cameras							
Recording control	Programmable: Possible in the event of video failure, fault, alarm, motion, cover, distortion, schedule, permanent							
Pre-alarm ring memory	Up to 20 minutes: Image data that covers the time period before and after an alarm is saved in this archive.							
Alarm responses	Programmable: Start of the video recording, activation of relays or detectors, sending an alarm message (e-mail, mobile phone)							
Alarm message	Transmission via e-mail, FTP, ISDN, on-screen (remote)							
Response during image failure	Entry in the alarm protocol and programmable event response							
Connection options external data	PoS (protocols of cash point systems), ATM (data from ATMs) as per BGV cash point directives							
Remote access and control	Via LAN/WAN							
Hardware	High-end components with advanced cooling management designed for continuous operation (24/7/365)							
Alarm inputs/alarm outputs	4 inputs, 4 relay outputs							
Backup media	CD-R/RW, DVD-R/RW+DL, DVD+R/RW+DL, USB data carrier							
USB connections	6 ports: 2x front, 4x back							
Serial port	1 x RS-232, 1 x RS-422/485: for controlling speeddome cameras and pan-tilt cameras							
Audio output	3.5 mm phone jack							
19" slide-in system	4HE							
Power supply	100 - 240V AC, 50-60 Hz							
Power consumption normal operation	Approx. 200 Watts							
Max. power consumption	Up to 425 Watts							
Dimensions WxHxD	427 x 179 x 534 mm (without installation handles for 19" server rack, without feet); 483x181x545 mm (with installation handles and feet)							
Temperature	+5 to +35°C							
Weight	20-22 kg							
Certification	UVV-Kassen							

Eytron NVR digital network recorder Profiline

The market for IP-based video monitoring is booming. Today, video and network technology are strongly connected to each other - and the need for a powerful, network recording system is bigger than ever. The NVR conbines intuitive operation and cost-efficiency along with high-end performance. Due to its flexibility and expandability (open standard for IP cameras from many manufacturers, control center function, integrated software, etc.), this generation of recorders is designed for the ever-increasing future requirements of IP-based surveillance.

- Digital recorder for 24 IP cameras
- Real-time in 4CIF (full-size) for each channel (25 images/s)
- Overall image rate: 600 images/s
- Powerful IP video compression: MPEG-4
- Open IP cameras from various manufacturers (e.g. Axis, Siemens, Mobotix, other RTSP-capable models, etc.)
- Special hardware decompression for video images (safes processing power, comparable to an additional image rate of up to 200 images/s)
- Separate video-LAN port for an independent surveillance network
- Integrated video management software with intelligent security functions (e.g. distortion, cover, defocus alarm) - all cameras are self-monitoring
- Integrated alarm output (e.g. for signal generators)
- Hard-disks accessible from front (hot swap)
- Intelligent cooling management (self-monitoring)
- Low power and cooling requirements, low-noise technology
- Control panel, mouse and network cable included in scope of delivery
- Integrated web server for Internet Explorer, Firefox, Safari, Opera (plug-in-free)
- Supported protocols: TCP/IP, HTTP, SMTP, FTP, UPnP, NTP, DNS,DHCP, RTSP and others

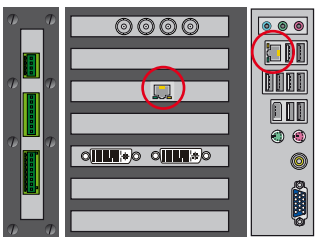
Pure network power: 24 real-time channels for IP cameras!
Simultaneously monitor, record and play 24 IP channels - in real-time and on full-screen.



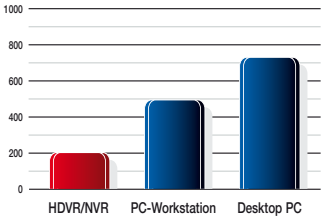
Open standard: Third-party cameras - unlimited possibilities!
In order to utilize all of the advantages of the NVR, you are not bound to use ABUS Security-Center cameras. You can integrate IP cameras from other manufacturers (megapixel, too).

100% performance ex works: Use instantly - without expensive upgrades!
The certified hardware has especially been fitted to the software. If many functions, interfaces and components are expensive elsewhere, here they are included in the "all inclusive" purchase price.

Made by professionals for professionals: extra hardware for hard work!
A flowing, high-resolution video image on 24 channels is hard work even for good processors. The NVR has separate hardware decompression for this.



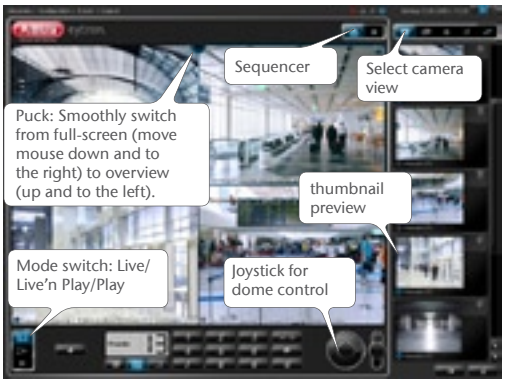
A network just for video: Separate Video-LAN interface!
During simultaneous transmission of several IP cameras, the LAN might experience heavy loads. An extra video LAN port prevents this: This is used to transmit video streams.



Minimal power consumption: Thanks to efficient technology!
Low operating costs! Due to innovative power management, the energy requirements at full load are only 200 W.

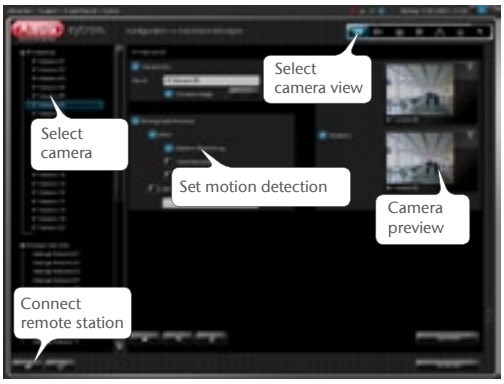
Video Management Software: Embedded intelligence

With just a few clicks, you have all IP channels in view


Sequencer
Select camera view
Puck: Smoothly switch from full-screen (move mouse down and to the right) to overview (up and to the left).
thumbnail preview
Mode switch: Live/ Live'n Play/Play
Joystick for dome control

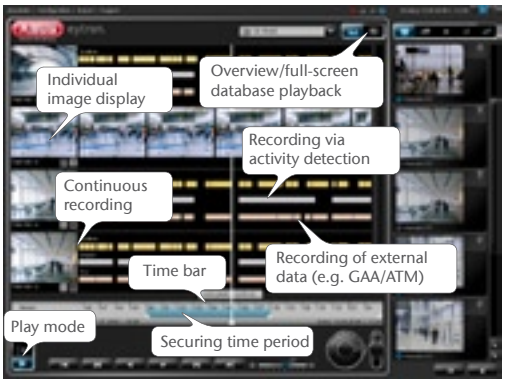
You control almost all of the functions of the VMS software by using the mouse. Select cameras (on the right) depending on which and how many live images you want to see on the monitor. You just drag & drop the channels from the thumbnail preview (right edge) into the live window.

Setup IP cameras and alarm detectors on first try



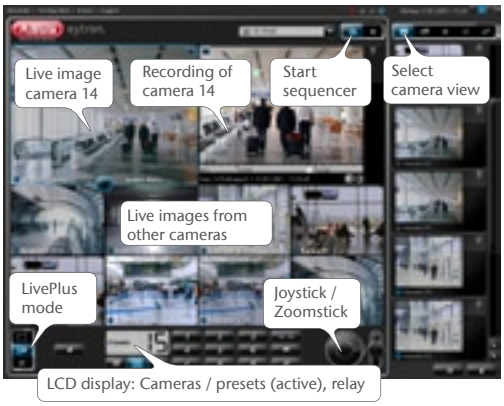
Define the desired resolution, image areas (motion sensors), swivel/ incline function, etc. for each individual camera. In the menu box, you have the right settings for each camera in a window. When you add the next camera or alarm detector, use the same easy procedure - then you will always have a full overview even for 40 cameras.

Respond always immediately correct



Solve incidents in a mouse click. Find relevant recordings by criterias such as the calendar, time, camera, detector, etc. - and safe yourself the time of a manual search.

Live view and playback via network at a glance!



Everything in view on one screen: The innovative LivePlus mode allows the playback of a recording while all of the other channels are displayed (and recorded) live. Combine local cameras, cameras on the LAN or WAN.

Network performance: Technical data of the NVR model!

Article number	TV3110	TV3111
Recorder model	NVR 24; 1TB	NVR 24; 3TB
IP video inputs	24 x IP 10/100/1000 MBit interface "Video LAN"	24 x IP 10/100/1000 MBit interface "Video LAN"
Image rate per channel	25 images/second (real-time)	25 images/second (real-time)
Image rate overall	600 images/second	600 images/second
Hard-disk capacity	1 TB	3 TB
Operating mode	The following are possible simultaneously: Live monitoring, recording, playback, data export, network access	
Resolution	depending on IP camera CIF, 2CIF, 4CIF/D1; Megapixels	
Compression method	MPEG-4, MJPEG; freely selectable for each camera	
Bitrate per channel	depending on camera	
Network protocol	The following are supported: IPv4, TCP, HTTP, DHCP, NTP, UDP, RTSP	
Software	Eytron VMS Enterprise NVR	
Security functions	Privacy masking, distortion protection, defocus protection, coverage surveillance, lost & found object, auto-tracking function, 8-channel PoS function and much more.	
Remote access and control	Via LAN/WAN	
Hardware	High-end components with advanced cooling management designed for continuous operation (24/7)	
Video output	2 x DVI-I	
Alarm inputs/alarm outputs	4 inputs, 4 relay outputs	
Other connections	10 x USB (2 front, 8 rear); 1 x RS-232, 1 x RS-422/RS-485; audio output	
Dimensions WxHxD	427 x 179 x 534 mm (without installation handles for 19" server rack, without feet); 483x181x545 mm (with installation handles and feet)	
Power supply/power consumption	100 - 240V AC, 50-60 Hz / 200 Watts (normal operation); max. 425 Watts	
Weight	20 - 22 kg	
Certification	UVV-Kassen	

Eytron PCI video surveillance cards

UVV only in connection with video management software Eytron VMS Professional / Eytron VMS Enterprise

Real value for money, whether on a home computer or as a professional system: With Eytron PCI video surveillance cards, you can turn your PC into a digital video management center for viewing, recording and managing the images! Due to the hybrid function, you can integrate analog or digital cameras. The VMS Basic video management software is included in the scope of delivery. It is possible to upgrade to the Eytron VMS Professional or Eytron VMS Enterprise versions at any time.

- PC video card for digital recording of 4, 8 or 16 cameras
- Image resolutions: 704 x 576 (4CIF), 704 x 288, 352 x 288
- Recording image rate: max. 400 images per second
- Free video management software Eytron VMS Basic included
- MPEG-4/MJPEG compression of the video data
- Recording by schedule, alarm recording triggered by motion detectors
- E-mail / FTP-notification in the event of an alarm
- Integrated web server function (no ActiveX control element/plug-in free) password protection with individual access rights
- Many display modes: Full-screen, quad, multiple display
- Supports dynamic IP addresses
- Video signal failure detection
- UVV-Kassen certified - only in connection with Eytron VMS Professional / Eytron VMS Enterprise video management software

Scope of delivery:
Eytron PCI card (incl. adapter cables, not on all models), Eytron VMS Basic video management software, operating instructions, installation instructions

400 images for 16 hybrid channels: High performance in real-time!
Real-time images from 16 analog or IP cameras in full-screen resolution. The MPEG-4 compression saves bandwith on the network and minimizes the space needed on the PC hard-disk.

Free software – Upgrade at any time: The system grows along with you!
With the free Eytron VMS Basic, you can implement important settings and functions. You can upgrade the software when needed and turn it into a professional video management center (VMS Professional or Enterprise).

From entry-level to high-end: 11 cards for any requirement!
Whether it's a private home, gas station or industrial complex: You only buy the performance that you need! With alarm card and VMS software (Professional and Enterprise), the system is UVV-Kassen certified.

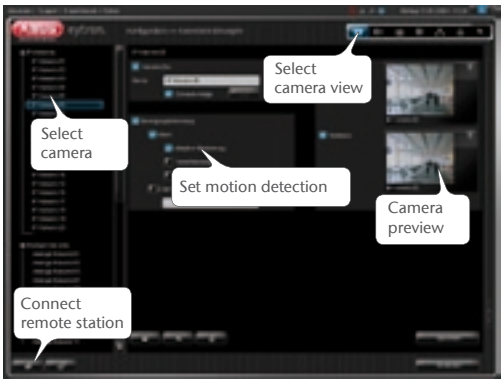
Article number	TV3300	TV3301	TV3302	TV3303	TV3304	TV3305	TV3306	TV3307	TV3308	TV3309	TV3310
Camera inputs	4	8	16	4	8	4	8	16	8	16	16
Recorded image rate overall	25	25	25	50	50	100	100	100	200	200	400
Recording image rate for each camera	6,25	3,1	1,6	12,5	6,25	25	12,5	6,25	25	12,5	25
Recording mode	Super-Mux	Dual-Mux	Mux	Quasi real-time	Super-Mux	Real-time	Quasi real-time	Super-Mux	Real-time	Quasi real-time	Real-time
Technical requirements	Intel® Pentium D: 2.8 GHz, 512 MB RAM, VGA 128 MB					Intel® Core™ 2 Duo: 2.0 GHz, 1 GB RAM, VGA 128 MB					
FREE software included	Video management software Eytron VMS Basic										

FREE video management software VMS Basic included:

With just a few clicks, you have all IP channels in view

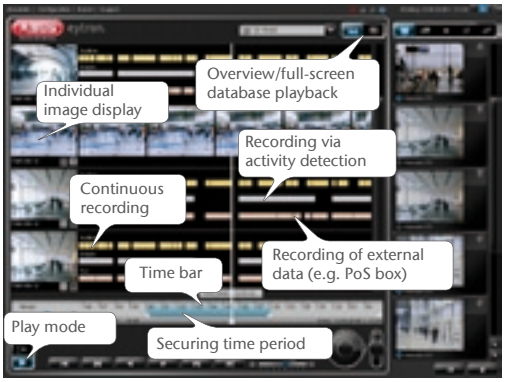
You control almost all of the functions of the VMS software by using the mouse. Select cameras (on the right) depending on which and how many live images you want to see on the monitor. You just drag & drop the channels from the bar preview (right edge) into the live window.

Setup IP cameras and alarm detectors on the first try



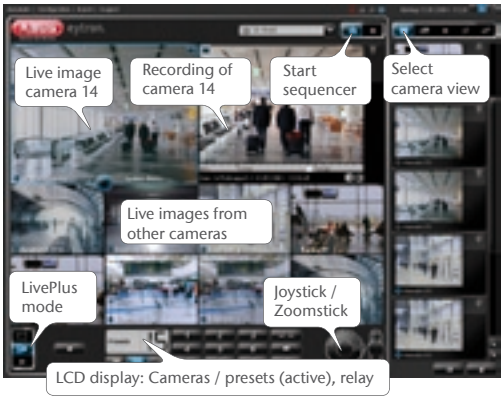
Define the desired resolution, image areas (motion sensors), swivel/ incline function, etc. for each individual camera. In the menu box, you have the right settings for each camera in a window. When you add the next camera or alarm detector, use the same easy procedure - then you will always have a full overview even for 40 cameras.

Immediately respond to events in the proper way



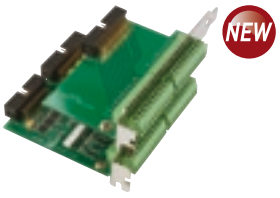
Solve incidents in a mouse click. Find relevant recordings by criterias such as the calendar, time, camera, detector, etc. - and safe yourself the time of a manual search.

Live view and playback via network at a glance!



Everything in view on one screen: The innovative LivePlus mode allows the playback of a recording while all of the other channels are displayed (and recorded) live. Combine local cameras, cameras on the LAN or WAN.

Eytron PCI alarm card



By using the alarm card, you can integrate up to 16 wired detectors in your surveillance system. As soon as one of the detectors, detects an alarm, the recording starts. Up to 8 relay outputs can be activated via the alarm card.

- 16 alarm inputs
- 8 relay outputs
- Can be combined with all Eytron PCI cards (TV3300 - TV3310)
- For the quick integration of alarm detectors or sensors

Article number	TV3311

Interface converter

For controlling speeddomes via RS-485, these practical interface converters are indispensable, regardless of which connections are available.

- Converts RS-232 to RS-485, half-duplex
- Quick connection in seconds
- Driver CD included (TV8468 only)

Article number	TV8468	TV8469
Connection	USB	Serial

Eytron PoS-Box

The PoS box is connected to a commercial cash register. It displays the data (prices, products) of the cash register in the video image of the CCTV camera. Thus, you can compare the cash register data with the goods actually purchased. You can sort the data on your PC by date, time and product name (item no.) and use it to find the recording of a person. As interface between cash register and VMS software, the box is a suitable component for the HDVR or NVR system.

- Displaying and saving transaction data in the live image and recording
- Searching for and identifying persons based on their transaction data (e.g. the person and the item they purchased)
- Power is supplied via USB (no external power supply required)
- Full text search, search by date/ time/product name
- Power supply (optional): 5VDC/500mA
- Connections: USB, RS-485, serial, parallel port
- Dimensions (WxHxD): 140x110x35 mm

Article number	TV3313

Video management software Eytron VMS Basic / Eytron VMS Professional / Eytron VMS Enterprise

only VMS Professional / Enterprise

With the VMS software, you can setup a video management center on your PC with up to 64 cameras (analog, IP). VMS Basic is included in the scope of delivery for all Eyseo IP cameras and Eytron PCI cards - You can use this to implement an unbeatable, cost-effective video surveillance system! Do you need more? With the high-end versions, Professional and Enterprise, which are available as an upgrade and as a stand alone version, you can perfectly expand an existing system (including IP cameras from third-party manufacturers) and benefit from many intelligent security functions.

Functions of the free software (VMS Basic):

- Efficient software solution for Eyseo IP cameras and Eytron PCI cards
- 24 h surveillance with diverse control functions and security functions
- Up to 16 network cameras from ABUS Security-Center can be integrated
- User-friendly graphical user interface (easy understandable)
- Very easy to operate by means of the video puck (control tool via mouse)
- Innovative preview bar with drag&drop function (overview, time advantage)
- Simultaneous recording and live display of all images (multi-tasking)
- All of the settings for each individual camera (e.g. resolution/image rate)
- Definition of a weekly recording program
- Other functions (VMS Professional, Enterprise): See table on the right.

VMS Professional and VMS Enterprise: As an upgrade for VMS Basic or as stand-alone system

Upgrade your IP camera system: Expand to a high-end system! Do you use Eyseo IP cameras/video servers, incl. VMS Basic? With an upgrade to Professional/Enterprise, you benefit from intelligent security functions, UVV-certification, remote access for multiple users, and much more.

Upgrade for your PCI cards: High performance for your hybrid system! Do you want to use high-end functions for analog and IP cameras on your PC system? You will be able to do this with VMS Professional/Enterprise using the easy to operate user interface that is customary for VMS Basic.

Conveniently manage a large number of different cameras: Do you want to combine a complex system with up to 64 cameras from different manufacturers in one user interface, integrate up to 8 PoS boxes or grant 10 users remote access? Then VMS Enterprise is the right choice for you!

A control center for all cameras and recorders - worldwide! Do you want to access decentralized cameras, digital recorders, PC systems, etc. without system limitations? The control center function of VMS Enterprise provides you with the ideal solutions for this (see application example on page 61).

Eytron video management software: a single user interface for worldwide video sources.

With a maximum of 64 channels (VMS Enterprise), you have unlimited options for integrating video sources from various locations into your video management center. This gives you access to all of the video data on one user interface. It is also possible to control PTZ dome cameras via the network. The picture below shows a sample application:

Channel 1: Eytron HDVR, Hamburg
Channel 2: Eytron NVR, Hannover
Channel 3: Progressive scan network camera, New York
Channel 8: Eyseo analog camera connected to PC with Eytron PCI-card, Vienna
Channel 12: Eytron NVR, Brussels
Channel 20: Eyseo IP CMOS camera, Augsburg
Channel 28: IP camera (third-party manufacturer), Berlin
Joystick for dome control
Channel 33: Eyseo IP CMOS P/T camera, Hannover
Channel 50: Eyseo PTZ dome camera via video server, warehouse, Dortmund
Channel 64: Eyseo analog camera connected to PC with Eytron PCI card, parking lot Augsburg

The right video management center for any requirement: Performance characteristics of the VMS Basic, Professional and Enterprise

	Eytron VMS Basic	Eytron VMS Professional	Eytron VMS Enterprise
Article number	---	**TV3200**	**TV3210**
Total number of channels (IP + analog)	16	16	64
IP camera protocols	ABUS	e.g. ABUS, Axis, Mobotix, ACTi, RTSP	e.g. ABUS, Axis, Mobotix, ACTi, RTSP
Remote access via browser, PDA	max. 1 users	max. 3 users	max. 10 users
Remote access to other Eytron HDVR/NVR systems	No	max. 3 simultaneous systems	unlimited
UVV (BGV) cash point mode	No	Yes	Yes
Multi-monitoring	1 monitor	max. 2 monitors	max. 4 monitors
USB dongle	No	Yes	Yes
Integration of PoS boxes	No	Yes, max. 2	Yes, max. 8
High-end security functions (cover-, defocus-, contortion check, lost & found)	No	Yes	Yes
Speeddome tracking (automatic motion detection and tracking)	No	No	Yes
Free software (with Eyseo IP cameras, Eyseo dual stream video server and Eytron PCI cards)	Yes	No	No

JPEG2000 dual codec digital recorder

The latest compression method, image display for Internet access and many functions: The Eytron JPEG2000 Dual Codec DVR provides excellent quality video recording. You can connect up to 16 cameras to the JPEG2000. The video signals of the cameras are compressed in the recorder (Dual Codec: JPEG2000 recording and H.264 network stream). All of the connected cameras record in real-time -(25 images/second). You can install 2 SATA hard-disks for saving the data. You can also export the data by using the integrated CD writer or transfer datas via network cable or USB. Depending on the configuration of your network, you can even view your recordings worldwide via the Internet. You can also operate the Eytron JPEG2000 Dual Codec DVR via remote control or a mouse.

- Integrated CD writer
- Data backup via USB port
- JPEG2000 compression
- Recording image rate up to 25 images/s per channel (REAL-TIME!)
- Jog-shuttle for easy, precise operation
- Network and Internet access possible
- Remote control included

Main functions:
Graphical user interface · access protection/password management for 10 users · Integrated picture-in-picture function (PIP) · Variable search speed · post-alarm can be programmed (1 - 300 seconds) · Integrated digital zoom · Remote access to live/playback data via software · Supports dynamic IP addresses via DDNS server· Event memory with up to 1,000 entries · Completely maintenance-free · Real-time display

Recording functions:
Resolution 720x288, 360x288, 360x144 pixels · Five compression levels · Integrated motion sensor · Adjustable recording modes (continuous, motion, schedule, alarm), two hard-disks can be installed (included)

Connections:
1 alarm output · 1 spot monitor · 1 BNC video output · Network RJ45 (10/100 MBit/s) · USB connection for software update · USB port for data backup · RS-485 for speeddome control (e.g. Pelco protocol)

Control functions:
Sequential search by date, time and event, Variable search speed, Jog-shuttle, Time, name and date in the video images · Dimensions (WxHxD): 430x92x400 mm · Weight: approx. 8 kg without hard-disks

CD writer and hard-disk

Article number	**TV8931**	**TV8932**	**TV8933**
Camera inputs	4	8	16
Maximum recording rate	100 images/second	200 images/second	400 images/second
Network connection	LAN (RJ45 BaseT-Ethernet 10/100 MBit)		
VGA board can be installed	yes		
Alarm inputs	4	8	16
BNC video inputs	4	8	16
Views	1,4	1,4,6,8	1,4,6,8,9,13,16

The latest software or updates can be downloaded at: www.abus-sc.com

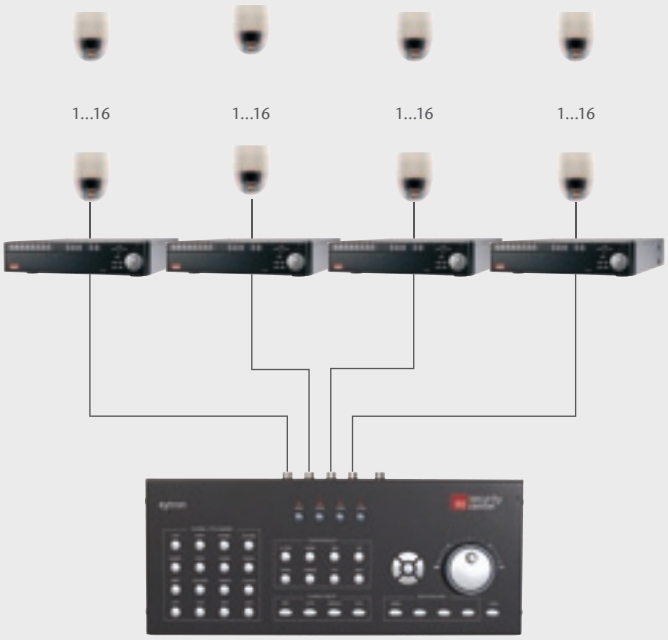
Superior compression

Due to JPEG2000 compression, these digital recorders achieve unique image quality without compression artefacts. Therefore, these recorders provide excellent image quality with fine details at the same resolution and only slightly higher file size than MPEG-4.

MPEG-4 14 kB file size at 720x288 pixels

JPEG2000 24 kB file size at 720x288 pixels

How to use the control panel effectively:



Simply connect the recorders with a RS-232 or RS-485 converter and you will control up to 4 JPEG2000 Dual Codec digital recorders with the Eytron DVR control panel. Using the 4 DVR keys, select the recorder that you would like to control. You can access all of the functions of the JPEG2000 Dual Codec digital recorder via the control panel.

Accessories for Eytron digital recorders:

Eytron DVR control panel

The control panel is ideally suited for operating several JPEG2000 recorders or controlling them from a distance of up to 500 m. You can call all of the recorder functions. You can conveniently switch between the individual recorders using the selection keys.

- Central control of up to four Eytron JPEG2000 digital recorders
- All of the functions of the recorder can be called up
- Central control of PTZ domes
- Easy installation
- Dimensions (WxHxD): 340x140x40 mm

Scope of delivery:
Eytron DVR control panel, power supply unit, instructions, 4 RS-232/ RS-485 converter, 4 RS-232 cable

Article number	TV8906

SATA hard-disk for digital recorders

NEW

Fast data transfer and optimized for continuous operation: The new SATA hard-disks are the perfect storage medium for Eytron digital recorders.

- Data transfer up to 300 MB/s
- Optimized for use 24/7
- Compatible with all SATA DVRs

Article number	TV8940	TV8941
Storage capacity	500 GB	750 GB

VGA board

NEW

You can connect monitors with VGA connections (TFT monitors) to the Eytron JPEG2000 with the compact connector module.

- Image refresh rate 60 Hz & 75 Hz
- Maximum resolution 1024x768 pixels
- Plug & play

Article number	TV8934

Quick and easy data export: Via USB port

Backup large volumes of data quickly and easily! Chewed up tapes are a thing of the past - but large volumes of digital data can be archived without any trouble. Easy to transport in order to perform backups and analyses at any location. A simple and proven solution for this is a backup via USB. You can connect USB sticks and USB hard-disks to your DVR just as easily as to a PC. Plug them in, transfer the data and you are done.

Accessories for Eytron digital recorders:

SATA hard-disk for digital recorders

NEW

The SATA hard-disks are accessories for Eytron digital recorders.

- Fast data transfer (up to 300MB/s)
- Optimized for use 24/7
- Compatible with all SATA DVRs
- Quickly integrated into the housing

Article number	TV8940	TV8941
Storage capacity	500 GB	750 GB

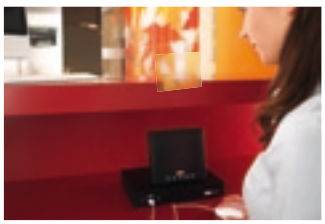
Eytron Ecoline MJPEG 4-channel digital recorder with LAN

NEW

Professional recording for an affordable price: This is what the Eytron MJPEG series represents. You can save and archive your camera images on the SATA hard-disk using the Eytron MJPEG digital recorder. This greatly simplifies the implementation of a video surveillance system for installers and users, because only cameras and a monitor have to be connected. The recorder provides high resolution (704 x 288 pixels) for data backup and real-time pictures with up to 25 images per second. Data exports are quick and easy via the integrated USB port. The recorder is suitable for a 3.5" hard-disk with a max. of 1 TB memory. The DVR puts an end to disorganized recorder menus, because all settings can be controlled with a mouse on the graphical user interface. Change from quad screen view to a full-screen view with one click. A spot monitor can also be connected to the MJPEG recorder which shows the relevant camera in full-screen view in the event of an alarm or when a motion is detected. The network technology allows worldwide access to image data via LAN or the Internet. Permitting state-of-the-art LAN linkage via Ethernet, the DVR opens up the digital world to analog cameras.

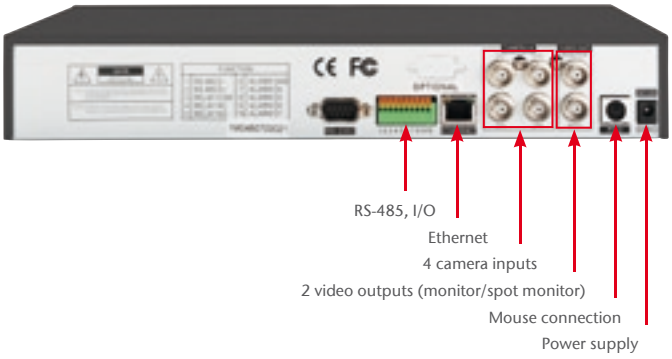
- Compression method: MJPEG
- 3 compression levels
- Backup options: USB
- Max. hard-drive capacity: 1 TB (HDD not included)
- Password protection
- Search options: Manual, date/time, event
- Voltage: 12 V, 4 A power supply unit (100-240 V 50/60 Hz)
- Dimensions (WxHxD): 320x50x210 mm
- Weight: 4 kg (without hard-disk)

Scope of delivery:
Recorder, mouse, power supply, instructions



The convenient video recording solution for offices and shops

Connection options of the MJPEG digital recorder



Article number	TV8925

Eytron Ecoline MJPEG 4-channel video surveillance set with LAN

If you are considering a video surveillance system that is quick to install, cost-effective and professional, don´t miss out on the new Ecoline video surveillance sets. Whether one camera is enough for you or whether you want to use four of the small, compact cameras, the sets offers you a professional entry-level solution at a highly competitive price.

Scope of delivery:
Eytron 4-channel digital recorder
Ecoline TV8925, colour mini-compact camera(s) TV7182 (see page 32), ready-to-connect extension cable (20 m each), power supply unit

Article number	**TV8926 (set with 1 camera)**	**TV8927 (set with 4 cameras)**

Accessories for the video surveillance set:

8" CCTV monitor

The black 28 mm flat 8" TFT colour monitor is the most space-saving model of our monitor series.

- Resolution 800x600 pixels
- Integrated stereo speaker
- Contrast 500:1, brightness 300 cd/m²
- Angle of view: 140° V / 140° H
- Inputs: 2xBNC, 1x S-video, 2x audio
- Outputs: 1x audio
- Dimensions (HxWxD): 192x175x28 mm

Article number	**TV8181**

Ecoline CCTV monitors

The Ecoline TFT CCTV monitors provide outstanding image quality and a fast response time for optimal image quality.

- Resolution: 1280x1024 pixels
- Inputs: BNC, S-video, VGA
- BNC loop-through output and S-video output
- Angle of view: min. 160° H/160° V

Article number	**TV8182**	**TV8183**
Screen diagonal	17“	19“

The latest software or updates can be downloaded at: www.abus-sc.com

Eytron MJPEG “All-In-One” digital recorder

Video surveillance - transportable and compact.

The “All-In-One” digital recorder can be easily used anywhere.

The new MJPEG “All-In-One” DVR combines a 4-channel digital recorder and an 8" TFT monitor in a practical and compact housing. Due to its small dimensions of only 192x182x198 mm, the “All-In-One” DVR is especially well suited for locations with very little space, such as kiosks or gas stations. Simply connect up to 4 cameras and the video surveillance system is ready.

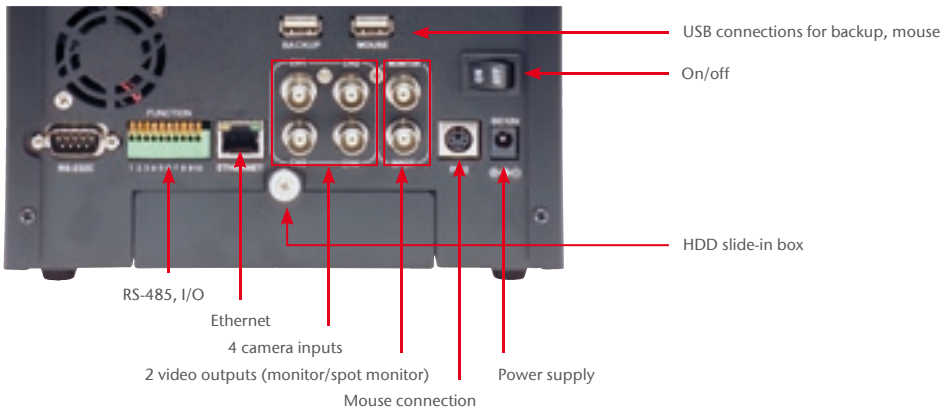
The recorder provides high resolution (704 x 288 pixels) for data backup and real-time pictures with up to 25 images per second. The data is saved on a 3.5" SATA hard-disk, which can be integrated in the digital recorder with a max. of 1 TB memory. It is operated easily and conveniently with a mouse. Change from quad screen view to a full-screen view in one click. With the RS-485 connection, you can also control connected speeddome cameras using the mouse. A spot monitor can also be connected. In addition to two video outputs (monitor and spot monitor) and an alarm output, the MJPEG “All-In-One” also provides an Ethernet connection. This is what earns this digital recorder the name “All-In-One”!

- Compression method: MJPEG
- Max. resolution: 704x288 pixels
- Manual, scheduled or event-controlled recording with integrated motion detector
- Search options: Search by percentage (jump directly into the time bar for recording): 0% = oldest recording, 100% = last recording), date/time, event
- Max. hard-drive capacity: 1 TB (not included)
- Password protection
- Digital zoom: Digital enlargement of the live image
- Adjustable display formats (individual, quad, picture-in-picture or sequential display)
- Network: 10/100 BaseT Ethernet (RJ45) for LAN and WAN
- USB port for video sequence export
- 1 alarm output
- RS-485 connection for easy control of speeddome cameras
- Support dynamic IP addresses via DDNS server
- Multi-language on-screen menu
- Voltage: 12 VDC, 5 A power supply
- Dimensions (WxHxD): 192x182x198 mm

Scope of delivery:
MJPEG “All-In-One” digital recorder, power supply unit with connecting cable, mouse and installation instructions

Suitable accessories:
500 GB SATA hard-disk TV8940,
750 GB SATA hard-disk TV8941 (see page 64)

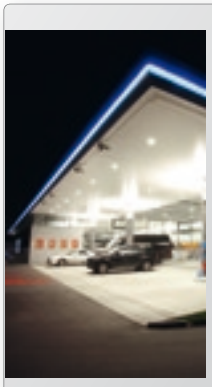
Connection options: The “All-In-One” gives you all the options



Article number	TV8921

The latest software or updates can be downloaded at: www.abus-sc.com

The compact multi-function device for plug‘n play video surveillance



Connecting cameras and recording

With dimensions of only 182 x 192 x 198 mm (HxWxD), the “All-In-One” DVR is the video surveillance system for use in areas with very little space. The MJPEG “All-In-One” is the ideal guard, especially in gas stations and kiosks. In the rugged and portable housing, there is an 8" TFT monitor, in addition to the 4-channel MJPEG digital recorder. This greatly simplifies the implementation of a video surveillance system for installers and users. Only analog CCTV cameras have to be connected and installed.

The “All-In-One” solution for mobile use

With its compact dimensions, low weight and practical handle, the “All-In-One” is a great choice when it is used on the road. The setup of a short-term surveillance system can be done without a lot of time, for such things as

- trade fairs and events
- at construction sites/moving construction sites
- in motorhomes, caravans, small buses, etc.

You spare yourself the second device and the additional connections.

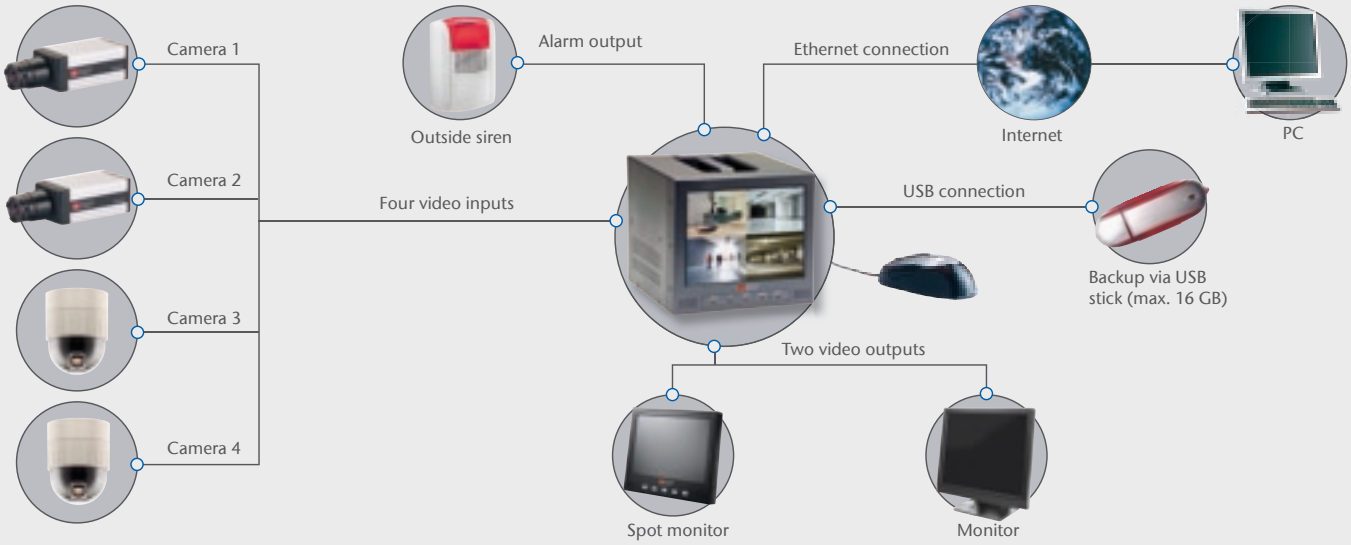
Everything in view - from home as well

The network technology allows worldwide access to image data via LAN or the Internet. You can access the data of your recorder via the Internet, not just from your home PC and from anywhere in the world.

Advantages thanks to the DDNS server

Mobile access to digital recorders (and PCs) can cause unnecessary problems, if you have a static IP address. With the DDNS server from ABUS Security-Center, such obstacles are a thing of the past. The recorder sends its changing public IP address to the server at regular intervals. So you can access the recorder from outside the system at any time at **www.eytronserver.com** and you can access the data of your system.

The multi-faceted nature of the MJPEG “All-In-One” digital recorder



Portable Mini-Digital Recorder

Small, discrete, independent - the new mini-DVRs in pocket-size format. In combination with mini-cameras, you have the perfect surveillance system for mobile and covert applications. Whether in the car, concealed on your body or hidden inside a motion detector - these recorders capture what is happening.

Eytron mini-digital recorder Ecoline

The cost-effective mini-DVR is ideal for continuous mobile use. It provides all of the important functions for professional surveillance, such as adjustable image rate and resolution, record start by motion sensor or schedule, MPEG-4 compression for maximum duration of the recording on the memory card. This makes it the ideal solution for a high-performance car surveillance system and is already being successfully used in Austria for taxi surveillance. The car kit is an ideal accessory for use in cars. The recorder and camera are supplied with power of the cigarette lighter. The video images can be viewed on an external monitor or on your PC.

▶ page 70

NEW

Eytron mini-digital recorder with LCD Ecoline

The good way to enter the world of mobile video surveillance without limits: In addition to the comprehensive functions, the LCD Ecoline gives you the capability of immediately viewing and evaluating recorded images with its 2.5" LCD display that is integrated in its housing. The wide range of accessories, such as a mini-clip camera, which can be worn inconspicuously on your body and is supplied with power from the mini-digital recorder. This makes the mini-DVR ideally suited, both for mobile surveillance professionals and private users (filming from a bicycle, in a model airplane, etc.)

▶ page 72

NEW

Eytron mini-digital recorder with LCD Profiline

Maximum functionality and 2.5" LCD display in mini-format! The comprehensive functions include alarm input, audio input/output and the use of up to32 GB memory cards. An on-screen display ensures the ultimate in user-friendliness. In this display, you make all the settings using just a few keys – you can even create a 24-hour schedule in no time at all. This allows undercover professionals to adapt the device settings to a given situation at any time, on the go. The remote control that is included in the scope of delivery provides unique operating convenience. The integrated USB output provides convenient transfer of the video data to the PC.

▶ page 74

NEW

Eytron digital camcorder

This motion detector conceals a high-resolution board camera - with a ready-to-use digital recorder! The complete system is easy to mount on the wall and is ready-to-use without extra wiring. This makes it ideal for discrete surveillance in many applications. You can retrieve your recorded data quickly and easily, without having to open the housing or to be discovered due to a time-consuming swap: Remove the memory card, insert a new one and you are ready.

▶ page 76

Article number	TV8450	TV8510	TV8465	TV8500
Compression	MPEG4-SP, ASF file format	MPEG4-SP, ASF file format	MPEG-4 SP, ASF file format, G.726/ 32 kbps (audio)	MPEG4-SP, ASF file format
2.5" LCD colour display	----------	yes	yes	----------
Integrated camera	----------	----------	----------	yes
Remote control	----------	----------	yes	----------
Audio input	----------	----------	yes	----------
Audio output	----------	----------	yes	----------
Playback speed	up to 32x	up to 32x	up to 32x	1x, event playback
Record mode	Manual, schedule-controlled, motion detection	Manual, motion detection, alarm	Manual, schedule-controlled, alarm, motion detection, continuous	Manual, schedule-controlled, alarm, motion detection, continuous
Max. image frequency	25 images/second	30 images/second	30 images/second	30 images/second
Alarm input	----------	yes	yes	----------
Weight	185 g (without batteries)	118 g (incl. batteries)	96 g (incl. batteries)	130 g (without batteries)
Dimensions (WxHxD) in mm	65x90x29 mm	86x55x22.5 mm	86x55x22.5 mm	97.5 x 87.5 x 50.5 mm
Application areas	Mobile continuous use, e.g. in cars or taxis	Recorder + clip camera worn on your body, leisure activities	Professional undercover applications (e.g. detectives)	Concealed surveillance in the office - or in private applications
Product in catalogue starting on	page 70	page 72	page 74	page 76
max. SD card (not included)	32 GB	32 GB	32 GB	32 GB

Application examples of portable mini-digital recorders

Clearing up internal theft

Pick-pockets in the act

Protection from unauthorized access

Portable mini-digital recorder Ecoline

Portable - perfect for mobile observation

Records on SD and SDHC cards

The inconspicuous and easily transportable mini-DVR can be operated with batteries or conveniently connected to an external power supply. The recording will start manually via the integrated motion detector or by a programmed schedule. For viewing the recordings, a monitor can be connected to the integrated video output.

- Adjustable image recording rate 1: 25 images/second image rate
  2: 20 images/second image rate
  3: 10 images/second
- Image resolutions: 352x280 pixels, 704x280 pixels, 704x560 pixels
- Adjustable playback speed
- Integrated motion detector with adjustable sensitivity
- Time and date
- Compression: MPEG-4
- File format: ASF
- PAL/NTSC
- Storage medium: Secure Digital (SD or SDHC) card (not in delivery kit), max. 32 GB
- 1 video input/output
- Power consumption: max. 2.5 W
- Power supply: Power supply unit 100-240 VAC/5 VDC, 50/60 Hz, 2x1,5 V AA (rechargeable Ni-MH / alkaline battery) /CR-V3 / RCR-V3 (not included)
- Weight: 185 g
- Dimensions (WxHxD): 65x90x29 mm

Scope of delivery
Mini-digital recorder, 2x BNC-RCA adapter, leather bag, power supply unit, video cable, instructions

Optional accessories:
SDHC cards (TV8962, TV8963), card reader (TV8960), audio-video cable (TV8460), battery (FU2994)

Article number	TV8450	FU2994
Specification	Mini-DVR	Battery

recording duration

		1 GB SD card			2 GB SD card			4 GB SDHC card			8 GB SDHC card			16 GB SDHC card			32 GB SDHC card		
	Quality	high	medium	low	high	medium	low	high	medium	low	high	medium	low	high	medium	low	high	medium	low
	images/s	Hours (h)																	
352 x 280	5	20,3	32,8	61,0	40,6	65,6	122,0	81,2	131,2	244,0	162,4	262,4	488,0	324,8	524,8	976,0	649,6	1049,6	1952,0
	10	10,2	16,4	30,5	20,3	32,8	61,0	40,6	65,6	122,0	81,2	131,2	244,0	162,4	262,4	488,0	324,8	524,8	976,0
	20	5,1	8,2	15,3	10,2	16,4	30,5	20,3	32,8	61,0	40,6	65,6	122,0	81,2	131,2	244,0	162,4	262,4	488,0
	25	4,1	6,6	12,2	8,1	13,1	24,4	16,2	26,2	48,8	32,4	52,4	97,6	64,8	104,8	195,2	129,6	209,6	390,4
704 x 280	5	9,8	16,7	24,4	19,6	33,4	48,8	39,2	66,8	97,6	78,4	133,6	195,2	156,8	267,2	390,4	313,6	534,4	780,8
	10	4,9	8,4	12,2	9,8	16,7	24,4	19,6	33,4	48,8	39,2	66,8	97,6	78,4	133,6	195,2	156,8	267,2	390,4
	20	2,5	4,2	6,1	4,9	8,4	12,2	9,8	16,7	24,4	19,6	33,4	48,8	39,2	66,8	97,6	78,4	133,6	195,2
704 x 560	5	4,8	8,3	15,5	9,6	16,6	31,0	19,2	33,2	62,0	38,4	66,4	124,0	76,8	132,8	248,0	153,6	265,6	496,0
	10	2,4	4,2	7,8	4,8	8,3	15,5	9,6	16,6	31,0	19,2	33,2	62,0	38,4	66,4	124,0	76,8	132,8	248,0

SDHC cards

Image similar

These SDHC (Secure Digital High-Capacity) cards are especially well suited for your mini-digital recorder.

- Secure Digital Card (SDHC card)
- Storage capacity: 8 GB, 16 GB
- High-speed class: 6 or 4 (6 / 4 MByte/s)
- Only compatible with SDHC-capable devices
- Dimensions (WxHxD): 24x32x2.1 mm

Article number	TV8962	TV8963
Speed class	6	4
Storage capacity	8 GB	16 GB

"9-in-1" card reader

Image similar

The "9-in-1" card reader is connected via USB and is capable of reading various types of memory cards.

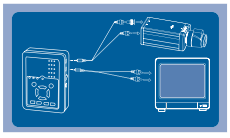
- Supported standards: USB 2.0, SD 1.x/2.0, SDHC and MMC 4.1
- Compatible with Windows 2000 (SP3), XP (SP1), Vista, Mac (version 10.x and higher) or Linux (as of version 2.4)
- Connection via USB 2.0 or 1.1
- Dimensions (WxHxD): 77x30x15 mm

Article number	TV8960

Audio video cable

Expand the functionality of your mini-DVR recording and playback of audio.

The audio-video cable allows you to save and playback audio data together with the video data of a camera on your miniature digital recorder. The set consists of two cables: One for recording and the other for playback.



Article number	TV8460

Car-kit for mini-digital recorder

The digital recorder and the camera are supplied with power from the cigarette lighter by the car-kit. The output voltage can be adapted to the input voltage of the mobile recorder and the camera.

- For supplying power to the Eytron mini-DVR and camera
- Output voltage is variable
- Input voltage 12 VDC
- Output voltage 2 x 12 VDC
- Fuse for main outlet 10 A
- Input voltage 12-13.8 VDC
- Output voltage 1.5 / 3.0 / 4.5 / 6.0 / 7.5 / 9.0 / 12 VDC
- Output 800 mA

Article number	TV8461

Mobile and flexible recording with the mini-DVR

There are many applications, which require flexible, easy to install and mobile solutions. Just one example: Installation in a car or taxi. With the mini-DVR, you have a recorder at your disposal, which provides video recording for hours in cigarette box format. The storage medium is an SD or SDHC card, which will record up to 8 days of video data with good resolution, (depending on the card and image rate). Its small dimensions and the large range of functions make it a multi-talented device. Special car kits provide additional convenience.

The mini-DVR has been approved for use in taxis by the Austrian data protection commission.

Improve the security in a taxi: Eyseo super mini-colour camera TV7150 (see page 25) and Eytron mini-DVR in the team.

Eytron Ecoline portable mini-digital recorder with LCD

Leather pouch included

The Eytron mobile LCD-DVR is the cost-effective entry-level model into the world of mobile video surveillance. You can directly view and evaluate the recorded images via the integrated 2.5" LCD display. You can save the data on commercially available SD or SDHC (Secure Digital High-Capacity) cards. You can set different resolutions (320x280, 640x480 pixels) for the recorded image data. The recording is started manually or when the recorder detects motion. In addition to a video input for connecting a camera, you can connect the recorder to another monitor via the video output. In addition to its technical data, the portable digital recorder is particularly appealing due to its practical accessories. There is a clip camera for the Ecoline mini-digital recorder. The recorder supplies the camera with its power. Summary: Just plug it in and your undercover surveillance is complete.

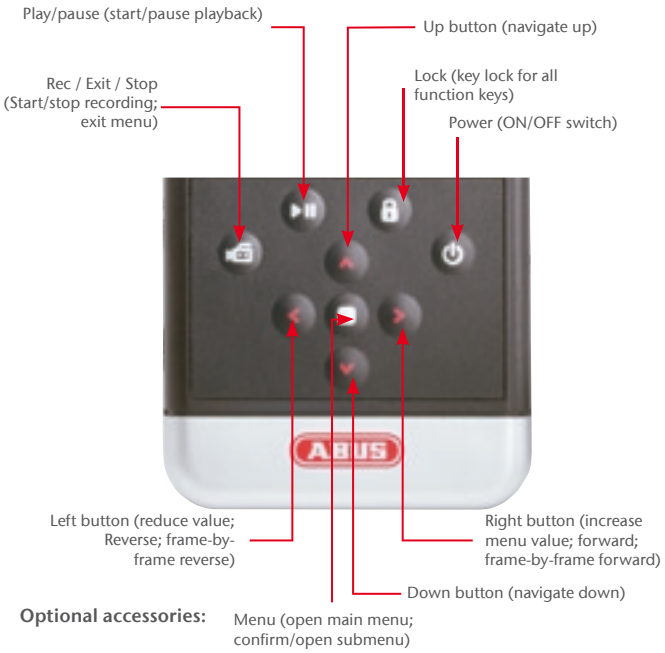
- 2.5" colour display
- Adjustable image recording rate; image rate 1: 12 images/second image rate 2: 30 images/second
- Image resolutions: 640x480 pixels, 320x240 pixels
- Adjustable playback speed
- Recording mode: Manual, motion detection, alarm
- 1 alarm input (NO/NC)
- Integrated motion sensor with adjustable sensitivity
- Multi-language screen menu
- Compression: MPEG-4
- File format: ASF
- PAL/NTSC
- Storage medium: Secure Digital (SD or SDHC) card (not included), max. 32 GB
- 1 video input/output
- Power supply: Power supply unit 100-240 VAC/5 VDC, 50/60 Hz, 5 V rechargeable battery (built-in)
- Weight: 118 g
- Dimensions (WxHxD): 65x110x27 mm

Article number	TV8510

Scope of delivery:
Digital recorder, power supply unit, 2x BNC-RCA adapter, two video cables (input, output), alarm cable, leather bag

Optional accessories:
SDHC cards (TV8962, TV8963), card reader (TV8960), clip camera (TV8511)

Easy operation of the Ecoline mini-digital recorder with LCD


Play/pause (start/pause playback)
Up button (navigate up)
Rec / Exit / Stop (Start/stop recording; exit menu)
Lock (key lock for all function keys)
Power (ON/OFF switch)
Left button (reduce value; Reverse; frame-by-frame reverse)
Right button (increase menu value; forward; frame-by-frame forward)
Down button (navigate down)
Menu (open main menu; confirm/open submenu)
ABUS

Data for duration of recording

		1 GB SD card			2 GB SD card			4 GB SDHC card			8 GB SDHC card			16 GB SDHC card			32 GB SDHC card		
	Quality	low	medium	high	low	medium	high	low	medium	high	low	medium	high	low	medium	high	low	medium	high
Resolution	images/s	Hours (h)																	
320 x 240	30	10,0	6,3	2,5	20,0	12,7	5,0	40,0	25,3	10,0	80,0	50,7	20,0	160,0	101,3	40,0	320,0	202,7	80,0
	12	25,0	15,8	6,3	50,0	31,7	12,5	100,0	63,3	25,0	200,0	126,7	50,0	400,0	253,3	100,0	800,0	506,7	200,0
640 x 480	12	5,7	4,7	2,6	11,3	9,3	5,2	22,7	18,7	10,3	45,3	37,3	20,7	90,7	74,7	41,3	181,3	149,3	82,7

Clip camera for Ecoline mini-digital recorder with LCD

This pin-hole clip camera is a special accessory for the mini-DVR LCD Ecoline. With this, you can turn the recorder into a mobile surveillance system. Easier and more cost-effective than ever!

- 1/8“ CMOS sensor
- 380 TV lines (colour)
- Light sensitivity: 1 lux
- Power supply: 5 VDC, 130 mA (via mini-DVR Ecoline)
- Dimensions (WxHxD): 15x15x12 mm

Article number	TV8511

The camera is worn concealed on your body

Absolute mobility – wear the camera and recorder on your body! The mini-DVR Ecoline and the TV8511 clip camera are perfect for this! The tiny camera is barely two centimeters in size and is inconspicuously worn on the body (collar, belt, etc.) - while the mini-DVR is concealed in a pocket or under your jacket. Because the camera is supplied with power directly from the recorder, there are no limits to mobile surveillance: Even outside of buildings and away from cars, you can capture crisp images. And thanks to the integrated LCD colour display, you can view and evaluate the recorded images on-site.

Instantly analyze recorded images!

Record using the clip camera on the recorder concealed on your body
View the recording immediately on the integrated LCD screen.

Completely autonomous: The clip camera is supplied with power by the mini-recorder.

Ideal for sport and leisure

Expand your options - with mobile video surveillance for everyone. "Filming" in mini format is exciting, not only to surveillance professionals, but also to anyone who wants to capture sports highlights or film a special hobby from a completely new vantage point:

- **Sports example:** Want to record acrobatic feats on a skateboard using a helmet camera? Want to film a downhill race on a mountain bike from the rider's perspective? The mini-DVR and clip camera are the ideal companions for this!
- **Modelling example:** Want to put a camera in the cockpit of a model airplane? With the clip camera and mini-DVR, there is now a system, which is ideally suited for this thanks to its size, weight and independent power supply (camera powered by DVR).

Eytron Profiline portable mini-digital recorder with LCD

With the new portable mini digital recorder from ABUS Security-Center, the images can be immediately viewed and analysed via a built-in 2.5" colour display. It is no longer necessary to connect a monitor. With dimensions of 86 x 55 x 22.5 mm and a weight of 85 g, the new mini digital recorder with LCD display is even more compact and lighter than its predecessor. It is suitable for use anywhere where mobile and flexible solutions are in demand for digital recording. Use in an automobile or a taxi is just one example. The analog video signals of the camera are compressed in the mini-digital recorder (MPEG-4). The maximum resolution of the images is 640x480 pixels. Lower resolutions are possible. Depending on the quality and image rate, up to 80 hours of images can be recorded on an 8 GB SDHC card. The memory card can be quickly and easily swapped. Other setting options, such as recording mode, motion detection and playback speed are adjustable in the multilingual on-screen display of the 2.5" colour LCD. A built-in, rechargeable lithium battery supplies the power.

- 2.5" colour display
- Adjustable image recording rate; image rate 1: 12 images/second image rate 2: 30 images/second
- Image resolutions: 640x480 pixels, 320x240 pixels
- Adjustable playback speed (max. 32x)
- Recording mode: Manual, scheduled, alarm, motion detection
- Multi-language on-screen display
- Integrated motion sensor with adjustable sensitivity and definition of 16 x 12 fields
- Time and date fade-in
- Search options: Manual or via event list
- Compression: MPEG-4 SP
- File format: ASF
- PAL/NTSC
- Audio: Scan rate 44.1 kHz with G.726 compression (32 kbps)
- Storage medium: Secure Digital (SD or SDHC) card (not included), max. 32 GB
- 1 video input/output
- 1 USB connection (USB 1.1)
- 1 alarm input (NO/NC)
- 1 connection for earphones
- Power consumption: max. 2.5 W, power supply: Power supply unit 230 VAC / 50/60 Hz, 1 5V lithium battery (built-in)
- Weight: 96 g
- Dimensions (WxHxD): 86x55x22.5 mm

Scope of delivery:
Digital recorder, 2x AV cable, 2x BNC-RCA adapter, alarm cable, remote control, power supply unit, leather bag, earphones

Optional accessories:
SDHC cards (TV8962, TV8963), card reader (TV8960),

Compact, handy and absolutely portable: Perfect for mobile observation

Video data can be recorded on commercially available SD cards

Everything is included in the delivery kit: Digital recorder, 2x AV cable, alarm cable, remote control, power supply, leather bag, earphones

Article number	TV8465

Easy operation of the Profiline mini-digital recorder with LCD

Function key (Status bar display/ LCD monitor on/off)

Play/pause (start/pause playback)

Stop (Stop recording/exit menu)

Record (Start manual recording)

Navigation cross and button (Menu: Navigation; playback: forward and reverse or frame-by-frame forward and reverse)

Speaker

Video / audio output

Video / audio input

Earphone connection

Warning sticker CCTV surveillance

Point out your CCTV surveillance system to customers, employees and by passers. These professional warning stickers scare off potential intruders and can save you a lot of trouble in advance. This also applies to concealed surveillance – so long as there is no justification for initial suspicion of the "undercover" surveillance.

- Printed on both sides
- Reflecting
- For "on glass" or "behind glass"
- UV-resistant
- Available in two sizes

For rooms that are accessible to the public, there is a legal requirement to inform the public about the video surveillance.

Article number	VF1312	VF1313
Dimensions	148x105 mm	74x52,5 mm

Made for undercover professionals: CCTV in "spy" format

Assignments in which “a spy” needs highly secretive filming technology can be easily carried out using the mini-DVR Profiline - and you can adapt the device to a given situation using the time-saving quick menu. With a mini-camera such as the Eyseo super mini-colour camera (page 25) the recorder really shows it strengths: It can be inconspicuously placed and quickly installed in almost any location.

The advantages of the Profiline mini-DVR with LCD:

- It is the most compact and lightest Eytron recorder of all time – ideal for wearing it concealed under your clothing or in a pocket
- Integrated 2.5" LCD display for viewing the video images
- Ergonomic, user-friendly menu navigation: Make important settings with just a few keys
- Separate alarm input available (recorder in "lurking mode")
- 24h schedule for defining the recording mode for each hour, e.g. motion detector, alarm input or continuous recording
- Long-term surveillance with 32 GB SDHC cards (not included)
- For use in combination with the car kit: Cigarette lighter as a charging station for the recorder and mini-camera (car kit accessories TV8461)
- Integrated audio input and output for recording with sound
- Easy transfer and backup on a PC or via the USB output

Standardized data storage

The video data of all Eytron mini-digital recorders is uniformly saved in ASF file format and can be used on all MPEG-4 compatible devices.

So, you can easily play recordings that were made on an LCD Ecoline device on a Profiline - and vice versa. All of the devices also use the same memory card format - transferring from one device to another is child's play.

Eytron Profiline mini-camcorder in the PIR housing

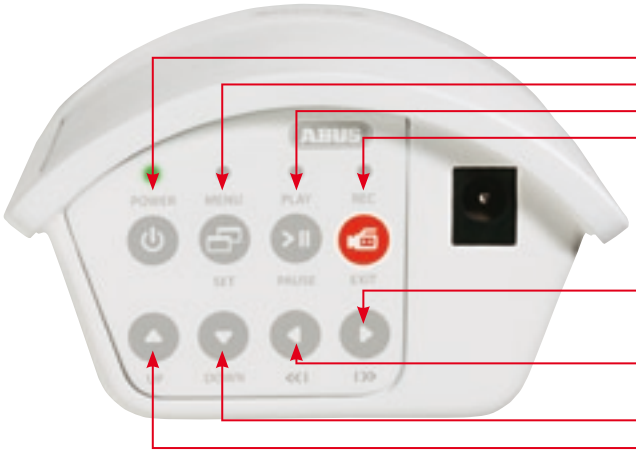
Records on commercially available SD cards

See, without being seen: The Eytron mini-camcorder in the PIR housing is an discrete surveillance system. Perfectly concealed in the housing of a motion detector, you can install it anywhere without the camera or recorder being recognized for what they are. In addition to a powerful digital recorder, the PIR housing also conceals a small board camera with a pin-hole lens. With 380 TV lines, the colour images of this surveillance camera are of good quality. With a focal length of 3.7 mm and a Horizontal angle of view of 71°, you can observe of almost the entire room. Because the mini-recorder is also located in the PIR housing, is necessary no video cable. You can select between different resolutions (320x280, 640x480 pixels). You start the recorder either manually or via motion detection. You can connect the recorder to a monitor. The data is saved on a commercially available SD or SDHC(Secure Digital High-Capacity) card, which is easily accessible and can be swapped at any time.

- All-in-one solution for concealed surveillance
- Integrated 3.7 mm needle-eye camera (colour) with Sony CCD (380 TVL)
- Horizontal angle of view: 71°
- Digital Signal Processor (DSP)
- Automatic White Balance (AWB)
- Automatic Gain Control (AGC)
- Light sensitivity > 0.2 lux
- Mini-DVR with flexible image resolution (max. 640x480 pixels)
- Adjustable image recording rates: image rate 1: 12 images/second image rate 2: 30 images/second
- Manual, continuous and motion-controlled recording
- Simple search by date/time
- SD and SDHC card compatible, max. 32 GB
- OSD (On-Screen-Display) video output for calibrating the camera during installation (test monitor not included)
- Operating temperature: +5°C up to +40° C
- Power supply: Power supply unit 230 VAC/ 5 VDC, 50/60 Hz or 4x1,5 V AA batteries (not included)

Scope of delivery
Mini-camcorder, 2x BNC-RCA adapter, power supply unit, wall bracket, video cable

Optional accessories:
SDHC cards (TV8962, TV8963), card reader (TV8960) 5.6" test monitor (TV8166)



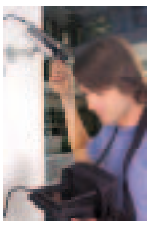
Article number	TV8500

Ecoline 5,6“ TFT test monitor

incl. carrying pouch

This test monitor is a must for every service vehicle. The ideal aid for correctly setting surveillance cameras on-site, or for displaying mini-recorders.

- Extremely rugged design
- Light, small and practical
- Easy operation
- 5.6" TFT monitor in the case
- 320x234 pixels resolution
- Two video inputs
- One video output as a test image generator
- Power supply: 12 VDC (charging power supply unit included)
- Battery pack in the delivery kit
- Setting options: Contrast, brightness, sharpness, colour, ON/OFF
- Built-in loudspeaker
- Including rugged carrying bag and rechargeable battery pack with charging power supply unit (also for the car)
- Weight 600 g
- Dimensions (WxHxD): 120x180x34 mm



Article number	TV8166

SDHC cards

Image similar

These SDHC (Secure Digital High-Capacity) cards are especially well suited for your mini-camcorder.

- Secure Digital Card (SDHC card)
- Storage capacity: 8 GB, 16 GB
- High-speed class: 6 or 4 (6/4 MByte/s)
- Only compatible with SDHC-capable devices
- Dimensions (WxHxD): 24x32x2.1 mm

Article number	TV8962	TV8963
High-speed class	6	4
Storage capacity	8 GB	16 GB

"9-in-1" card reader

Image similar

The new "9-in-1" card reader is connected via USB and is capable of reading various types of memory cards.

- Supported standards: USB 2.0, SD 1.x/2.0, SDHC and MMC 4.1
- Compatible with Windows 2000 (SP3), XP (SP1), Vista, Mac (version 10.x and higher) or Linux (as of version 2.4)
- Connection via USB 2.0 or 1.1
- Dimensions (WxHxD): 77x30x15 mm

Article number	TV8960

Know what's going on: At home, in the office and anywhere where it applies

Wherever there is a strong suspicion of a criminal act, concealed surveillance ensures clarity and is allowed by law! Because crimes such as theft, pilferage or invoice fraud can easily be traced when you know what has really happened in your absence:

- Does the new "cleaning lady" anything to do with the sudden disappearance of valuable items?
- Is the service provider really on the job for as many hours as he claims on his invoice? (e.g. building cleaning after the office is closed)
- Is an employee or supplier responsible for a twofold increase in the disappearance of goods from a warehouse?
- Is the guard conscientiously carrying out his duties or is he playing poker when he should be making the rounds?

The well covert complete device:

Install, record, analyze data - you have never had a simpler covert video surveillance system. The mini-camcorder is a ready-to-use complete system!

Camera and recorder: Instead of a recorder and a separate camera that you have to purchase, camouflage and connect individually, you have a mini-camcorder system that is ready-to-use in seconds.

Perfectly covert: The PIR housing has room for a camera and a recorder - both devices are installed in the housing and ready to use for the purpose of covert surveillance.

Portable and mobile: With dimensions similar to a motion detector, the mini-camcorder can be installed on any wall. Installation and removal are child's play.

Easy data exchange: Remove the SD card with the recorded data on it, insert a new card and you are finished. You don't have to open or remove the housing from the wall to do this.

Set up the perfect image section using the test monitor: The 5.6" TFT test monitor (TV8166) is an optional accessory for the mini-camcorder. You can use it after the installation to define the right image section for the concealed recording.

CCTV accessories

VdS outdoor housing

The first VdS-certified outdoor housing in the world - exclusively by ABUS Security-Center! Innovative lock technology, ultimate protection, vandalism or manipulation.

You can now setup a complete, VdS-certified CCTV system even in outdoor area - together with the certified cameras from ABUS Security-Center.

▶ starting on page 86

Infrared illuminators

IR illuminators supply your camera with light for good images in total darkness: From compact illuminators (20 LEDs) up to the XL variant (300 LEDs) with ranges from 30 up to 100 m. Discrete illuminators, with invisible LEDs, are suitable for inconspicuous surveillance. All IR illuminators are suitable for indoors or outdoors (IP66) with a lifetime of up to 5 years (50,000 hours).

▶ starting on page 84

Power supply

A high-quality power supply ensures the reliable operation of your CCTV system. In addition to the usual 12 VDC power supply, compact built-in power supply (outdoor housings) and high-performance power supplys are available (several cameras, IR illuminators or transmission sets, etc.)

▶ page 98

Monitors

Everything in view! The established CRT monitors provide high colour fidelity and resolution, while TFT monitors convince people with their flat, space-saving design and long lifetime. Compact spot and test monitors are suited for tight spaces and mobile applications. With the right accessories (wall mount, etc.), installation is very easy.

▶ **starting on page 81**

Signal transmission (wire)

Transmit video signals over long distances, with professional 2-wire transmission systems. Depending on your requirement, you can choose between coax cable and 2-wire transmissions with or without signal amplification (range 150 to 1,500 m). With special accessories such as interface converters, signal distributors or noise filters, you have the right solution for any situation.

▶ **starting on page 88**

Wireless video transmission

The high-quality wireless transmission systems from ABUS Security-Center allow long ranges and stable transmission without wires.

▶ **page 92**

Four at one stroke

Quads, also called multiplexers display the views of several cameras on one monitor. They are equipped with alarm inputs. In the event of an alarm, the corresponding camera is displayed in full-screen mode on the monitor.

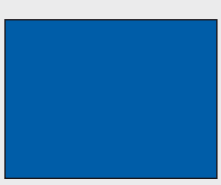
Digital quad processor

The digital quads from ABUS Security-Center is the cost-effective solution for live surveillance. Several inputs and outputs provide the greatest flexibility during use. Numerous features such as freeze frame, a built-in signal generator, 2x digital zoom during playback and relay output are built in.

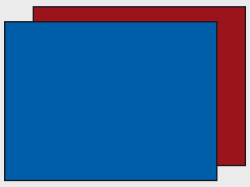
- Micro-processor technology
- Plug & play
- Compact design
- Full quad-view in real-time
- NTSC: 60 fps, PAL: 50 fps
- Built-in signal generator
- User-friendly On-Screen Display (OSD)
- Real-time
- Motion sensor for each channel
- Freeze function
- Automatic video failure detection with alarm function and monitor display
- Test image generator for easy monitor calibration
- Views: Quad, full-screen, PIP, POP, auto-sequential, playback
- Automatically detects unconnected channels
- Relay output
- Event memory for up to 40 alarm incidents
- Low current consumption, saves up to 50 % of energy costs
- Dimensions (WxHxD): 220x50x218 mm
- Voltage: 12 VDC
- Amperage: 1 A (included)

Scope of delivery:
Quad, power supply unit, manual

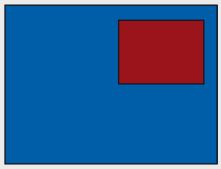
Possible display options of the quad processor:



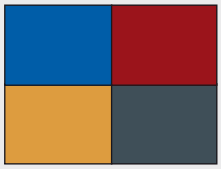
Full-screen



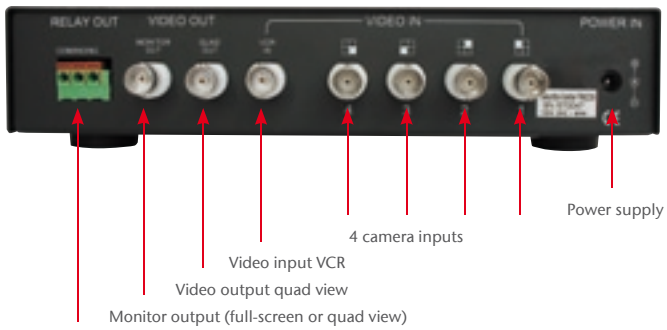
Sequence



Picture-in-picture



Quad



Article number	TV8239

CRT colour monitors

View the world live and in colour with the high-quality CRT colour monitors from ABUS Security-Center.

- Multi-language on-screen menu
- Horizontal resolution: 400 to 800 TV lines
- Rugged metal housing (stackable)
- BNC loop-through input plus S-video input
- Integrated loud speaker
- Voltage: 110-240 V AC
- 15“, 17“ and 19“ colour monitors with manual 2x switch-over
- 21“ monitor with autom. 3x switch-over

Article number	TV8151	TV8152	TV8156	TV8153	TV8154
Screen-size	14“	15“	17“	19“	21“
Colour - B/W	Colour	Colour	Colour	Colour	Colour
Resolution	400 TVL	800 TVL	800 TVL	800 TVL	500 TVL
manual 2x switch-over		yes	yes	yes	
automatic 3x switch-over					yes
Dimensions (WxHxD) in mm	350x350x360	350x350x360	416x400x417	448x434x448	490x437x482

CRT B/W monitors

Professional CRT monitors are the basis of a well-equipped video surveillance system.

- Multi-language on-screen menu
- Horizontal resolution: 800 to 1000 TV lines
- Rugged metal housing (stackable)
- BNC loop-through input
- Integrated loud speaker
- Voltage: 110-240 V AC

Article number	TV8101	TV8111	TV8121
Screen diagonal	9“	12“	15“
Colour - B/W	B/W	B/W	B/W
Resolution capability	800 TVL	800 TVL	1000 TVL
Dimensions (WxHxD) in mm	222x238x250	304x320x310	350x350x360

The right monitor for any application

It is not a question of faith, whether you use TFT monitors or CRT monitors. It is a question of the application area.

The cathode ray tube (CRT) is an electron tube, generating beams of electrons, which allows rapidly changing voltages and currents to be seen on a fluorescent screen. The CRT monitors require more space than flat-screen monitors, but they are popular due to their excellent colour fidelity and resolution. For some applications, the stack-ability of the rugged monitors is an important selling point.

TFT monitors are based on the use of thin-film transistors (TFTs). The image is formed when the laser strikes the thin film of silicium. The top features of these monitors are the space-saving flat design and outstanding durability. See more on page 82 for TFT monitors

Profiline CCTV monitors

An especially rugged design and outstanding image quality are the to features of these Profiline TFT monitors.

- Resolution: 1280x1024 pixels
- Screen-in-screen function
- Various scanning modes (under-scan, over-scan, full scan, 1:1 scan)
- 12 VDC output
- Stable frame and metal backing
- Response time: Max. 5 ms.
- Colors: 16.7 million
- Grey levels: 256
- Suitable for: B/W and colour cameras
- Automatic detection of input signals
- Video inputs: BNC + S-Video, VGA
- Outputs: BNC loop-through output, S-video
- Audio: Input and output
- Operating voltage: 230 VAC (incl. power supply unit)
- Angle of view: min. 160° V / 160° H
- Brightness: 250 cd/m²
- Contrast: 800:1
- Stereo speaker: Integrated
- Settings: By means of a multi-language on-screen menu

Scope of delivery:
CCTV monitor, suitable power supply unit

Optional accessories:
Wall mount (TV8198), 19“ rack adapter (TV8176-TV8177)

Ecoline CCTV monitors

The black Ecoline TFT CCTV monitors provide outstanding image quality and a fast response time for optimal images. Due to the BNC connection, these monitors are specially tailored to the requirements of professional video surveillance systems.

- Resolution: 1280x1024 pixels
- Response time: Max. 5 ms.
- Colors: 16.7 million
- Grey levels: 256
- Suitable for B/W and colour cameras
- Inputs: BNC video input, S-video input and VGA input
- Outputs: BNC loop-through output and S-video output
- Automatic detection of input signals
- Operating voltage: 12 V DC / > 4 A (incl. power supply unit)
- Angle of view: min. 160° H/160° V
- Brightness: 300 cd/m²
- Contrast: 800:1
- Stereo speaker: Integrated
- Settings: By means of a multi-language on-screen menu

Optional accessories:
Wall holder (TV8198)

Article number	**TV8172**	**TV8173**
Screen-size	17“	19“
Resolution	1280x1024	
Contrast	800:1	
Angle of view	160°V/170°H	160°V / 160°H
Brightness	250 cd/m²	
Dimensions (WxHxD) in mm	375x370x170	421x405x170

Article number	**TV8182**	**TV8183**
Screen-size	17“	19“
Resolution	1280x1024	
Contrast	800:1	
Angle of view	160°V/170°H	160°V / 160°H
Brightness	300 cd/m²	
Dimensions (WxHxD) in mm	386x388x170	424x419x170

Profiline 8“ CCTV colour monitor

The black, only 28 mm flat 8“ TFT colour monitor is the most space-saving model of our monitor range with integreated loudspeaker.

- Resolution 800x600 pixels
- Integrated stereo loudspeaker:
- Max. 10/15 ms (Tr/Tf) response time
- Multilingual OSD
- Contrast 500:1, brightness 300 cd/m²
- Angle of view 140° V / 140° H
- Two BNC inputs
- One S-video input
- Two audio inputs
- One audio output
- Operating voltage 12 VDC / 18 W
- Weight 1100 g
- Dimensions (HxWxD): 192x175x28 mm

Scope of delivery:
Monitor, base, power supply unit, instructions

Rear view: All connections are available

Article number	TV8181

Ecoline 5,6“ TFT test monitor

incl. carrying bag

This test monitor is the ideal tool to correct the settings of cameras right at the installation location.

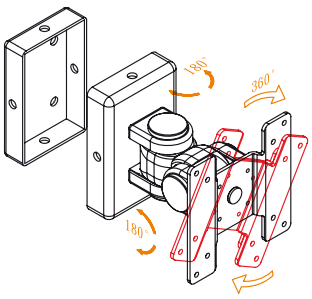
- Extremely rugged design
- Light, small and practical
- Easy operation
- 5.6“ TFT monitor incl. carrying bag
- 320x234 pixels resolution
- Two video inputs
- One video output as a test image generator
- Power supply: 12 VDC (charging power supply unit included)
- Battery pack included
- Setting options: Contrast, brightness, sharpness, colour, ON/OFF
- Built-in loudspeaker
- Including rugged carrying bag and rechargeable battery pack with charging power supply unit (12 VAC, e.g. cars)
- Weight: 600 g
- Dimensions (WxHxD): 120x180x34 mm

Easy on-site camera calibration

Article number	TV8166

Accessories for CCTV monitors:

Wall mount for CCTV monitors



The professional wall bracket for TFT CCTV monitors ensures stability with a nearly limitless variety of positions

- Wall mount for CCTV monitors
- 3 adjustable joints
- Dimensions (WxHxD): 80x108x120 mm

Article number	TV8198

19“ rack adapter

With this stable adapter the TFT CCTV monitors of the Profiline series fit into 19“ racks.

Article number	TV8176	TV8177
Version	17“	19“

IR illuminator MEGA-LED S

TV6807,TV6815 / TV6808,TV6816

With a housing height of 48 mm, this IR illuminator is ultra-compact. With 21 power LEDs provides top performance.

- Built-in sensor for automatic activation in low light condition
- Operating voltage: 12 VDC / Amperage: 0.35 A
- Wavelength: 880/940 nm, IR angle: 25°/25° or 60°/40°
- Distance: Depending on the model, 5 to 13 m (for a camera sensitivity of 0.1 lux); range for a sensitivity of 0.01 lux: See table
- Suitable for B/W and for day/night cameras
- Lifetime of the IR LEDs: 50,000 h/up to 5 years
- Protection class: IP66 - for indoors and outdoors
- Operating temperature: -30°C to +40°C
- Mount: 1/4“ tripod socket
- Dimensions (WxHxD): 74x38x48 mm

IR illuminator MEGA-LED M

TV6818,TV6830 / TV6819,TV6831

The IR illuminators of the MEGA LED M series provide 56 power LEDs - specially developed for medium distances.

- Built-in sensor for automatic activation in low light condition Operating voltage: 12 VDC / Amperage: 0.81 A
- Wavelength: 880/940 nm, IR angle: 20°/20° or 60°/40°
- Distance: Depending on the model, 7 to 20 m (for a camera sensitivity of 0.1 lux); range for a sensitivity of 0.01 lux: See table
- Suitable for B/W and for day/night cameras
- Lifetime of the IR LEDs: 50,000 h/up to 5 years
- Protection class: IP66 - for indoors and outdoors
- Operating temperature: -30° C to +40° C
- Mount: 1/4“ tripod socket
- Dimensions (WxHxD): 96x76x48 mm

IR illuminator MEGA-LED L

TV6825,TV6850 / TV6826,TV6851

With 98 LEDs, these infrared illuminators are good for distance up to 50 m.

- Built-in sensor for automatic activation in low light condition Operating voltage: 12 VDC / Amperage: 1.5 A
- Wavelength: 880/940 nm, IR angle: 20°/20° or 60°/40°
- Distance: Depending on the model, 9 to 30 m (for a camera sensitivity of 0.1 lux); range for a sensitivity of 0.01 lux: See table
- Suitable for B/W and for day/night cameras
- Lifetime of the IR LEDs: 50,000 h/up to 5 years
- Protection class: IP66 - for indoors and outdoors
- Operating temperature: -30° C to +40° C
- Mount: 1/4“ tripod socket
- Dimensions (WxHxD): 110x100x51 mm

IR illuminator MEGA-LED XL

TV6855,TV6899 / TV6856,TV6898

With 294 powerful IR LEDs, the MEGA LED XL illuminators provide distances, up to 100m. Ideal for monitoring large areas (e.g. parking lots, sports facilities and industrial plants, etc.)

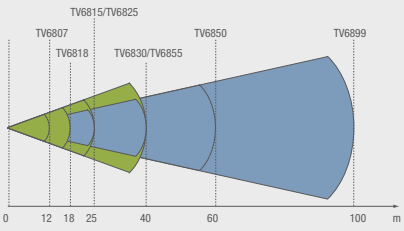
- Operating voltage: 12 VDC / Amperage: 3.9 A
- Wavelength: 880/940 nm, IR angle: 20°/20° or 60°/40°
- Distance: Depending on the model, 14 to 50 m (for a camera sensitivity of 0.1 lux); range for a sensitivity of 0.01 lux: See table
- Suitable for B/W and for day/night cameras
- Lifetime of the IR LEDs: 50,000 h/up to 5 years
- Protection class: IP66 - for indoors and outdoors
- Operating temperature: -30° C to +40° C
- Mount: M6 thread
- Dimensions (WxHxD): 200x134x64 mm

The „midnight suns“

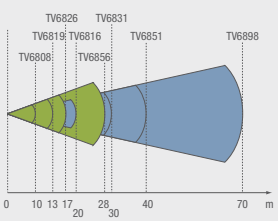
The IR illuminators of the Mega LED series convince with their outstanding luminosity and long life. From small to extra large, each version is available in two variants: Either intensively illuminate a defined area or cover a wider field. All of the illuminators are available as discrete and semi-discrete variants.

Beam angles and ranges

Choose the right IR angle and IR distance with this graphic.



Range at 0.01 lux - discrete IR illuminators



Range at 0.01 lux - semi-discrete IR illuminators

Profiline semi-discrete IR illuminators

If stronger illumination is needed, then we recommended the semi-discrete IR illuminator, which works with shorter light waves.

A wavelength of 880 nm, which can be optimally processed by the camera.

Article number	TV6807	TV6815	TV6818	TV6830	TV6825	TV6850	TV6855	TV6899
Type	S	S	M	M	L	L	XL	XL
Maximum object width/height in meters at 0.01 lux	12,5 / 7,8	10 / 10	20 / 12,5	13,5/13,5	28 / 17,5	20,5/20,5	44 / 27,5	34,5/34,5
Protection class	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66
Wavelength	880 nm (±20 nm)							
Number of LEDs	21	21	56	56	98	98	294	294
Range at 0.01 lux in meters	12	25	18	40	25	60	40	100
Range at 0.1 lux in meters	6	13	9	20	13	30	20	50
Beam angle horizontal/vertical in ° (±10 %)	60/40	25/25	60/40	20/20	60/40	20/20	60/40	20/20
Power consumption	4.2 W		10 W		18 W		47 W	
Amperage	max. 350 mA		max. 810 mA		max. 1500 mA		max. 3900 mA	
Operating voltage	12 VDC							
Mount	1/4“ tripod socket						M6 threads	
Dimensions (WxHxD) in mm	74x38x48 mm		96x76x48 mm		110x100x51 mm		200x134x64 mm	

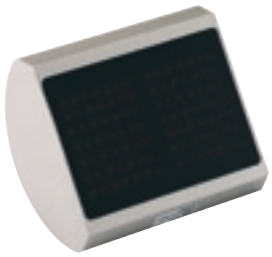
IR-illuminator Ecoline

The IR illuminator is equipped with a photo sensor, which reliably switches on the IR LEDs at approximately 10 lux. Suitable for all B/W cameras and for cameras with day/night function.

- Operating voltage: 12 VDC
- Amperage: 210 mA
- 24 units 850 nm IR LEDs, range of luminosity: approx. 10 m
- Lifetime of the IR LEDs: 6,000 h / approx. 2 years
- Beam angle: 35°
- Colour: Silver
- Protection class: IP67 - for indoors and outdoors
- Dimensions (HxØ): 55x37 mm

Article number	TV6700

Profiline discrete IR illuminators



Absolutely invisible. The discrete IR illuminators are developed for applications in which the camera surveillance and IR illuminators should not be noticed.

Article number	TV6808	TV6816	TV6819	TV6831	TV6826	TV6851	TV6856	TV6898
Type	S	S	M	M	L	L	XL	XL
Maximum object width/height in meters at 0.01 lux	12,5 / 7,8	10 / 10	20 / 12,5	13,5/13,5	28 / 17,5	20,5/20,5	44 / 27,5	34,5/34,5
Protection class	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66
Wavelength	940 nm (±20 nm)							
Number of LEDs	21	21	56	56	98	98	294	294
Range at 0.01 lux in meters	10	20	13	30	17	40	28	70
Range at 0.1 lux in meters	5	10	7	15	9	20	14	35
Beam angle horizontal/vertical in ° (±10 %)	60/40	25/25	60/40	20/20	60/40	20/20	60/40	20/20
Power consumption	4.2 W		10 W		18 W		47 W	
Amperage	max. 350 mA		max. 810 mA		max. 1500 mA		max. 3900 mA	
Operating voltage	12 VDC							
Mount	1/4“ tripod socket						M6 threads	
Dimensions (WxHxD) in mm	74x38x48 mm		96x76x48 mm		110x100x51 mm		200x134x64 mm	

Mounting bracket for IR-illuminators

The stable bracket ensures perfect positioning of the IR illuminator.

- Bracket for IR-illuminator for wall and ceiling mounting
- In two axis adjustable
- Colour: silver
- Dimensions (WxHxD): 64x186x89 mm

Article number	TV8339

Accessories

Sun-roof „light-silver“ for Profiline outdoor housing

- Alternative colour to the dark-grey sun-roof
- Powder-coated
- Better heat dispersion
- Flexible positioning

Article number	TV8499

Poke mount

- For attaching to rods or pokes

Article number	TV8496

Corner mount

- Ideal for installing in corners or on angle

Article number	TV8497

Ceiling mounting arm

- For reliably installing on ceilings
- Extra stable design
- Interior cable duct

Article number	TV8498

Profiline outdoor housing

NEW

With the world‘s first VdS-certified outdoor housing, ABUS Security-Center is providing cameras with optimal protection even under the worst conditions. The ultra-rugged, silver housing protects the camera from nearly every kind of weather, vandalism or manipulation. Due to comprehensive accessories, you can install the Profiline outdoor housing such as poles, ceilings or walls.

- World‘s first VdS-certified outdoor housing (TV8493 only)
- Ultra-rugged housing
- Break-proof front glass
- Contortion protection thanks to the Inbus screws and toothed rotating wheel
- Interior cable duct
- Flexible installation thanks to ability to rotate horizontally and vertically
- Tamper contact: When housing is opened, an alarm can be triggered
- Heating, a power supply unit and a fan are integrated (depending on model)
- Innovative locking system
- Protection class: IP67 (TV8495: IP54)
- Including wall bracket and sun-roof
- Comprehensive accessories for all application areas
- 230 VAC heating with thermostat (TV8495: 12 VDC)
- Dimensions (WxHxD): 150x150x405 mm

The advantages of the VdS outdoor housing as overview

Break-proof front glass

Fan or power supply unit optional

Extra stable pressure cast housing

Protection class IP 67

VdS certification

Side opening for easy installation

Tamper contact

Contortion protection

Consistent interior cable duct

Article number	TV8493	TV8494	TV8495
Heating	230VAC	230VAC	12 VDC
Power pack		12 VDC, 800mA	12 VDC, 3.5A
Heating/fan	yes/no	yes/no	yes/yes (12 VDC)
Degree of protection	IP67		IP54
VdS no.	V108002		

Ecoline outdoor housing

Close the flap and the camera is secure! Best cost/performance ratio with this top-seller Ecoline outdoor housing.

- Weather-proof, painted aluminum housing
- Flap lid for easy installation
- Integrated 230 VAC heating with thermostat
- Protection class: IP66
- Weight: 1.3 kg
- Dimensions (WxHxD): 140x110x360 mm (TV8350)
- Dimensions (WxHxD): 140x110x400 mm (TV8351)

Application example

Article number	TV8350	TV8351
Version	360 mm	400 mm

Wireless outdoor housing

This outdoor housing with an integrated antenna is the ideal outdoor support for cameras with wireless transmitters or WLAN.

- Frequency: 2.4 GHz (suitable for WLAN) or 5.8 GHz
- Antenna: 0 dB
- Complete package: Housing, antenna, cable, power supply unit, camera bracket
- TV5722 or TV5723 also required for CCTV cameras

Article number	TV5730	TV5731
Specification	2.4 GHz	5.8 GHz

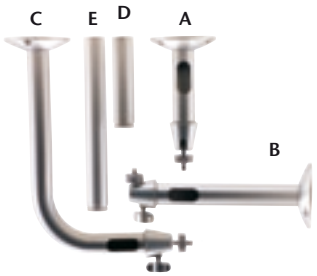
Wall mount for Ecoline outdoor housing

The wall bracket for outside housing ensure highest stability.

- Load-bearing capacity: 10 kg
- Horiz./vert. alignment: 360°/45°
- Partially concealed cable duct
- Dimensions (WxHxD): 70x110x240 mm

Article number	TV8352

Ecoline camera mounts



Put your Eyseo cameras in the perfect position. Unique, flexible extensions for every use.

- Elegant aluminum mounts
- Interior cable duct possible
- 360° spherical head with quick catch
- Load-bearing capacity: 4 kg
- 1/4“ tripod screw

A) camera bracket 125 mm
B) camera bracket 215 mm
C) camera bracket 250x160 mm
D) extension piece 100 mm
E) extension piece 200 mm

Article number	TV8390	TV8391	TV8392	TV8393	TV8394
Version	(A)	(B)	(C)	(D)	(E)

Profiline VdS mount for cameras

VdS

The world‘s first VdS-certified camera bracket stands for stable construction, indoor and outdoor usage and functional design. Ideally suited for all Ecoline and Profiline cameras.

- 1/4“ tripod screw
- Max. load-bearing capacity: 6 kg (VdS tested for 0.8 kg)
- For wall and ceiling mounting
- VdS no.: V 105001 (in combination with TV7300, TV7301, TV7310, TV7311, TV7330, TV7331, TV7320)
- Dimensions (WxHxD): 64x186x89 mm

Article number	TV8339

Long transmission ranges with 2 wires

Coaxial wireless network and 2-wire transmission are the most popular transmittion methods for video signals from the camera to a monitor or a recorder. Also ideal for projectors.

The distance is important

The signal transmission via coaxial cable is the most cost-effective option and suitable for ranges up to 150 meters. 2-wire transmission are used for longer distances with ranges of 1 to 1.5 km. Important good cable shielding and clean cable transitions.

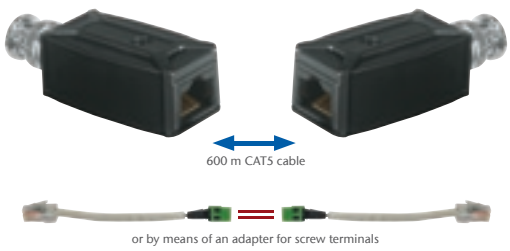
Easy installation

2-wire transmission combine transmitter and receiver. You connect the transmitting module to the video output of your camera and the receiver module to the video input of your monitor. Both modules are connected by a twisted pair cable (CAT5 cable with RJ45 socket) or via existing 2-wire copper wires (a telephone wire, for example).

Audio, RS485 data and images

In addition to analog video signals, transmit audio signals with a 1.5 km 2-wire transmission set or RS-485 data signals with this set.

600 m 2-wire transmission set



This transmitting/receiving set converts video signal so to existing 2-wire lines up to 600 m. A CAT5 connection (with RJ45 jacks) or a screw terminal connection (adapter included) can be used to connect the two modules.

- 1xBNC-plug connector 1 Vss (75 Ω)
- 1xRJ-45-jack (100 Ω)
- Adapter on screw terminal included
- Dimensions (WxHxD): 19x23x66 mm

Scope of delivery:
Transmitter, receiver, screw terminal adapters

Article number	TV8740

1.5 km 2-wire transmission set

This transmission system allows the use of existing copper wires for transmitting video signals, an audio signal, an RS-485 data signal or a switching contact (four wire pairs needed). The maximum transmission range is up to 1,500 m.

- Video input/video output: 1 Vss (75 Ω)
- Cinch audio input/audio output
- RS-485 Data IN / Data OUT
- Alarm input/output (NO)
- Transmission range: 100-1500 m
- Recommended cable: Twisted Pair (UTP)
- Operating voltage: 12 VDC (40 mA)
- Dimensions (WxHxD): each, 110x24x77 mm

Scope of delivery:
Transmitter, receiver, two power supply units (230 VAC / 12 VDC / 300 mA)

Article number	TV8720

Passive VGA transmission set

Allows the transmission of VGA signals of up to 135 meters distance (for 640x480 pixels), using an existing network cables.

- Multi-faceted applications: LCD projector systems, laptops, VGA monitors
- Transmission range: up to 135 m (depending on the image resolution)
- Video input/video output: VGA-DSUB jack / RJ-45 jack
- Input signals 1Vss (75 Ω)
- Insertion loss:< 3 dB / pair
- Reflection loss: max. 15 dB from DC up to 60 MHz
- Recommended cable: STP, CAT5
- Dim. (WxHxD): 110x24x77 mm (even)

Scope of delivery:
Transmitter, receiver

Article number	TV8760

Active VGA transmission set

The major advantage of active VGA transmission set: Due to simultaneous signal amplification, transmission is possible up to 300 meters.

- Ideally suited for presentations
- Looped-through VGA output on the transmitting module for local monitor
- Contrast and brightness control on the receiver
- Maximum resolution: 1600x1200 @ 85 Hz
- Max. 300 m transmission range for all resolutions
- Recommended cable: 4-pair CAT5/ UTP

Scope of delivery:
Transmitter, receiver, 2 suitable power supply units

Article number	TV8761

RGB/CVB transmission set

This transmission system allows the transmission of signals that are separated by three colour channels RGB/CVB (Y, Pb, Pr) via a UTP cable. Ranges of up to 300 m can be achieved in this way.

- Video input/video output: 3 Cinch jacks (Y, Pb, Pr)
- Video output/video input: RJ-45 jack
- Transmission range: up to 300 m
- Bandwidth DC to 8 Mhz (only 480p and 480l)
- Recommended cable: CAT5 / UTP
- Dimensions (WxHxD): each, 110x24x77 mm

Scope of delivery:
Transmitter, receiver

Article number	TV8770

S-video transmission set

This transmission system allows you to transmit both S-video and stereo-audio signals via a UTP cable. The maximum transmission range is up to 300 m.

- Video input/video output: S-video jack
- Video and audio input/video and audio output: RJ-45 jack
- Transmission range up to 300 m
- Bandwidth (video): DC up to 8 MHz (480l / 480p)
- Recommended cable: CAT5 / UTP
- Dimensions (WxHxD): each, 110x24x77 mm

Scope of delivery:
Transmitter, receiver

Article number	TV8750

FBAS video signal

A video signal is defined as a standardized signal for transmitting image information from the camera to the monitor or to the recording device. The possible image transmission standards are BAS and FBAS signal. BAS is the signal for B/W images, and FBAS signal has an additional signal for the colour information.

The abbreviation BAS/FBAS stands for:

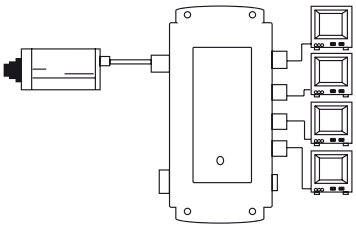
F - colour information (chrominance)
B - image information, brightness information (luminance)
A - blanking signal (blanking) during the line and screen change
S - synchronous pulse for the line and screen change

With the composite video signal (FBAS), all of the image data (colour information, image information, blanking signal and synchronization signal) are transmitted in one line - without any audio signal. Composite (FBAS) signals are transmitted via coaxial cables and are supported by nearly all video devices. Thus, a high performance video connection can be established at any time.

Cameras from ABUS Security-Center

	B/W cameras	Colour cameras
Standard resolution	380-450 TV lines	380-450 TV lines
High-resolution	600 TV lines	450-550 TV lines

4x signal distributor



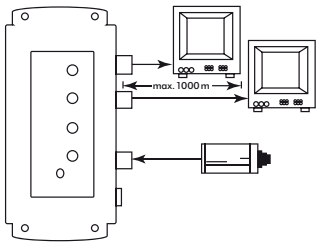
1 : 4 = 4! distributes a video signal without loss to 4 BNC outputs.

- 1 video input (BNC/1 Vss), 4 video outputs
- Suitable for PAL and NTSC
- Dimensions (WxHxD): 137x27x65 mm

Scope of delivery:
Signal distributor, 12 VDC power supply unit - also suitable for 24 VAC

Article number	TV8726

1000 m signal amplifier



Don't risk any loss during transmissions. Here comes professional amplification!

- Allows the loss-free transmission via coax cables
- Maximum cable length up to 1,000 m (with RG59 cable)
- 1 video input to 2 video outputs (BNC/1Vss)
- Settable image sharpness and brightness
- Suitable for PAL and NTSC
- Dimensions (WxHxD): 137x27x65 mm

Scope of delivery:
Signal amplifier, 12 VDC power supply unit

Article number	TV8725

Digital UHF modulator

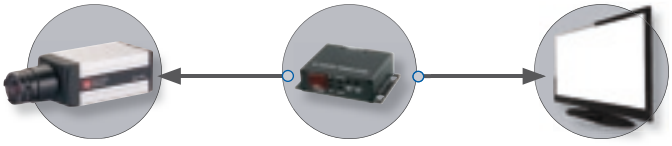
Front view

Rear view

This modulator converts video signals into HF signals, which every television can use. The modulator can be adjusted to UHF channels 14-69 or cable channels 65-135. The digital amplification circuit even allows the transmission into larger antenna systems (e.g. multi-family houses). Its compact size also allows it to be integrated into the outdoor housing for a camera. The channels and signal strengths can be set on the front of the device.

- Operating voltage: 9-12 VDC / 0.3 A
- Cinch video and audio input
- HF output (F-connector plug): min. 90 dBµV
- Transmission range: 470 - 883 MHz
- Dimensions (WxHxD): 75x25x64 mm

Scope of delivery:
UHF modulator, 2 suitable power supply units



analog camera — Digital UHF modulator — TV device

Article number	TV8682

UHF modulator

UHF modulator convert video and audio signals into HF signals.

Connect your camera to the UHF modulator via a video and audio input (cinch). Connect the HF output to the antenna input of your television. Alternatively, you can also feed HF signals into larger antenna systems (for a multi-family house, for example) via a 2-way or 3-way switch. The modulator can be adjusted to UHF channels 14-69 or cable/SAT channels 65-135 (not 95-99). The programming is conveniently done using up and down channels selection keys on the front of the device. Due to its compact design, the UHF modulator is ideally suited for installing in a outdoor housing.

RS-232 to RS-485 / RS-422 converter

Front view

Rear view

This converter transfers RS-232 data to RS-485 or RS-422 data with a maximum transmission rate of 115.2 kB per second.

- RS-232 connection: D-Sub (DB9) or RJ11 connection
- RS-485/RS-422 connection: Connection terminal or RJ11
- Signal transmission: 2-wire half-duplex RS-485 / 4-wire full duplex RS-485/RS-422
- Automatic baud rate detection
- Max. transmission rate: 115.2 KBit/s
- Transmission range: max. 1200 m (depending on transmission rate)
- LED display for power supply and signal status
- Voltage/power: 5 VDC / max. 500 mA
- Dimensions (WxHxD): 107x25x79 mm

Article number	TV8467

Interface converter

These practical interface converters are indispensable for controlling your cameras via RS-485, regardless of which connections are available. Where you want serial or USB 2.0, your control signals will be reliably converted.

- Converts RS-232 to RS-485, half-duplex
- Quick connection in seconds
- Driver CD included (TV8468 only)

Article number	TV8468	TV8469
Connection	USB	Serial

Wireless video systems

Wireless transmission of video signal is necessary, if cables are not wanted or not possible. The high-quality wireless transmission systems from ABUS Security-Center allow ranges of up to 2,200 meters outdoors and 125 meters indoors on HF wireless band 2.4 GHz or 5.8 GHz.

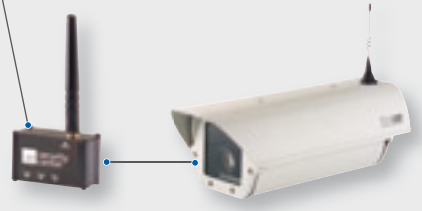
Transmitter

Transmitter video transmission set Ecoline

analog camera

Universal transmitter for direct mounting on the camera

Universal transmitter, also suitable for outdoors



Camera with connected wireless balun, built into a wireless outdoor housing

Receiver

Receiver video transmission set Ecoline

Receiver for indoors

Recorder, e.g. HDVR

Universal receiver

Example WLAN camera

WLAN IP camera

WLAN camera installed in the wireless outdoor housing with 2.4 GHz

WLAN router

Internet / network

Ecoline video transmission sets

These sets transmit video and audio signals (completely wireless). The 2.4 GHz version provides transmission distances up to 30 meters outdoors and up to 12 meters indoors. The 5.8 GHz set reaches up to 50 meters outdoors and 8 meters indoors. With this entry-level solution, short to medium-range distances can be achieved. The additional power antenna guarantees reliable and stable wireless transmission.

- Video input: 1 Vss / 75 Ω / Cinch
- Video output: 1 Vss / 75 Ω / Cinch
- Audio output/input: 2 x Cinch
- Voltage: 12 VDC
- Amperage: max. 300 mA
- Dimensions (WxHxD): 92x30x110 mm

Scope of delivery:
Transmitter, receiver, two antennas, two power supply units

Article number	TV8780	TV8781
Transmitting power	10 mW	25 mW
Channels	4	7
Antennas	3 dB / 5 dB	2x 5 dB
Specification	2.4 GHz	5.8 GHz

Wireless outdoor housing

This outdoor housing with an integrated antenna is the ideal support for external cameras. WLAN cameras can also be housed in the outdoor housing (TV5730) and benefit from the external antenna. Due comprehensive accessories (e.g.mounts) are available housing anywhere outdoors.

- Can be used universally, for WLAN cameras as well
- Frequency: 2.4 GHz (suitable for WLAN) or 5.8 GHz
- Antenna: 0 dB
- Integrated 230 VAC heating with thermostat
- Complete package: Housing, antenna, cable, 12 VDC/1 A concealed power supply unit, camera holder
- Voltage: 230 VAC
- TV5722 or TV5723 also required for conventional cameras
- Dimensions (WxHxD): 140x110x400 mm

Article number	TV5730	TV5731
Specification	2.4 GHz	5.8 GHz

Wireless transmission for any area

Depending on the wireless transmission set, you can simultaneously transmit the video data of up to 9 cameras. Indoors, 2.4 GHz wireless transmission systems are recommended. With the TV5720 universal wireless transmitter and receiver (TV5714), three cameras can be operated simultaneously.
The 5.8 GHz wireless transmission systems guarantee ideal transmission outdoors. Ranges of up to 2200 meters can be reached.

Stuart Parris, Product Marketing

"Combine the wireless outdoor housing with the Profiline wireless transmitters (page 94). Screw the transmitter directly behind the camera, dismantle the antenna and connect to the antenna of the housing instead. Combined with the wireless receivers, your video surveillance system knows no limits."

Profiline universal wireless transmitter (camera)

Application example

Turn your conventional camera into a wireless camera in the blink of an eye! The universal wireless transmitter can easily be mounted on the camera and the video data is transmitted "on the air," without a cable. An ingenious innovation from ABUS Security-Center, which will give your video surveillance system wings. Now your cameras are suddenly usable at locations you never imagined were possible. Even nearly inaccessible locations where no cabling was possible, no longer have to go unmonitored. To cover all requirementsk, the universal wireless transmitter is available in two versions, 2.4 or 5.8 GHz.

- Ideal for wireless video surveillance systems
- Transmission range: Up to 45 meters (indoors), up to 500 meters (outdoors)
- Suitable for all cameras, also for wireless outdoor housing
- Frequency: 2.4 GHz or 5.8 GHz
- Voltage: 12 VDC
- Amperage: Max. 70 mA
- Transmitting power: 10 mW or 25 mW
- Channels: 5 or 16
- Antenna: 0 dB
- Video input: 1 Vss / 75 Ω BNC
- Dimensions (WxHxD): 65x37x45 mm (without antenna)

Article number	TV5722	TV5723
Specification	2.4 GHz	5.8 GHz

Profiline universal wireless transmitter

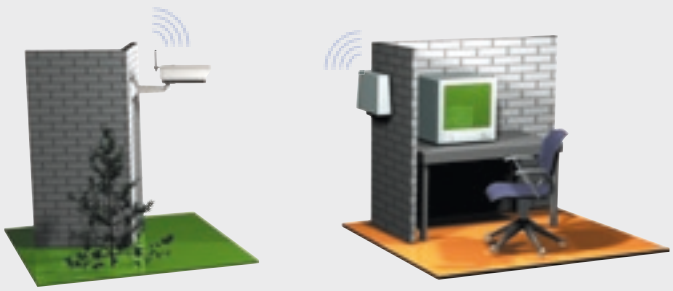
This inconspicuous wireless transmitter with an integrated patch antenna is built using the latest technology to make your wireless signals go farther than ever before.

- Can be used indoors and outdoors (IP54)
- Input for video and audio signals
- Channel selector switch with display
- Alarm input
- Video image inversion
- 1 video input
- 1 audio input (stereo)
- Integrated patch antenna
- Operating temperature: -10 °C to 55 °C
- Voltage/power: 7-30 VDC / 0.25 A
- Dimensions (WxHxD): 175x133x98 mm

Scope of delivery:
Wireless transmitter, power supply unit, pole mount

Article number	TV5720	TV5721
Specification	2.4 GHz	5.8 GHz

Typical application examples



Camera in the wireless outdoor housing together with the universal outdoor wireless receiver.

Standard camera plus universal wireless transmitter with the indoor multi-wireless receiver.

Profiline universal wireless receiver

Reception is the key to success. This universally usable wireless receiver is the ideal support for wireless-based video surveillance systems.

- Can be used indoors and outdoors (IP54)
- Output for video and audio signals
- Channel selector switch with display
- Video level controller
- Video image inversion
- 1 video output
- 1 audio output (stereo)
- Transistor alarm output
- Integr. 8 dB radiated beam antenna (2.4 GHz), or 15 dB directional beam antenna (5.8 GHz)
- Operating temperature: -10 °C to 55 °C
- Voltage/power: 7-30 VDC / 0.25 A
- Dimensions (WxHxD): 175x133x98 mm

Scope of delivery:
Wireless receiver, power supply unit, pole bracket

Article number	TV5714	TV5715
Specification	2.4 GHz	5.8 GHz

Wireless receiver for indoors

Indoor-wireless receiver with a wide range of functionalities.

- On-screen menu with text and date
- Integr. patch antenna
- Channel selector switch with display
- Video level control & reception level display
- Video image inversion
- 2 video outputs and 1 stereo audio output
- Transistor alarm output
- Operating temperature: -10 °C to 55 °C
- Voltage/power: 7-30 VDC / 0.25 A
- Dimensions (WxHxD): 105x48x100 mm

Scope of delivery:
Wireless receiver, power supply unit

Article number	TV5710	TV5711
Specification	2.4 GHz	5.8 GHz

Power antenna

This antenna that supports your wireless receiver is available in two versions. The 2.4 GHz antenna with 8 dB and the 5.8 GHz version with 16 dB.

- Protection class: IP65
- Suitable for TV5710/TV5711
- Weight: 103 g
- Dimensions (WxH): 82x92 mm

Scope of delivery:
Power antenna, two-meter cable, wall bracket, pole bracket

Article number	TV5712	TV5713
Specification	2.4 GHz	5.8 GHz

2.4 or 5.8 GHz?

In choosing between the two possible wireless frequencies, the different ranges and the number of transmitters (that can be simultaneously operated on the same frequency) are an issue. This table shows that the 2.4 GHz frequency allows longer ranges indoors. Outdoors, the 5.8 GHz systems have range advantages. The reason for this is the different penetrability of walls for wireless waves of different frequencies. The number of 2.4 GHz transmitters, that can operate at the same time, is limited to 3. In the 5.8 GHz range, up to 6 transmitters can be operated at the same time. If you combine the two frequencies (2.4 GHz and 5.8 GHz) in one object, then 9 transmitters (three 2.4 GHz plus six 5.8 GHz) operate simultaneously.

	2.4GHz	5.8GHz
Max. transmitting power	10 mW EIRP	25 mW EIRP
Wireless approval	Germany, Switzerland, Austria, BeNeLux, France	
Number of channels	5	16
Number of simultaneous transmitters on the same frequency	3	6
Range indoors	50 - 125 m	30 - 70 m
Range outdoors	500 - 1200 m	500 - 2200 m

The reliable way from A to B

Coaxial (RG59) cable is the most cost-effective way (next to network cables) for transmitting a video signal. The decisive advantage is: BNC connections are available on nearly all video surveillance devices. When transmitting with coax cables, you must take the power supply of the cameras into consideration. This is generally done via 12 VDC. Since there is not always a power supply at the installation location, the combination video cable is a clever solution. Because, in addition to the BNC connection for video data, two additional stranded wires are integrated for the 12 V power supply.

Video combination cable

One for all!

- RG59 CCTV video cable
- Integrated power line, 2x0.75 mm²
- Lengths: 50 m (KA9002), 100 m (KA9001), 250 m (KA9000)

Article number	KA9002	KA9001	KA9000
Length in m	50 m	100 m	250 m

RG59 video cable

The line for your video data always ensures a connection.

- With flexible inner conductor
- 75 Ω, type 0.6 L / 3.7 mm
- Lengths: 50 m (TV8602), 100 m (TV8601), 250 m (TV8600)

Article number	TV8602	TV8601	TV8600
Length in m	50 m	100 m	250 m

Ready-to-connect video/power supply cable

- Video signal and power supply combined in one cable
- Pre-assembled BNC and DC connections
- Suitable for all cameras with a BNC jack (female) and power connection (male)

Article number	TV7186	TV7184	TV7185
Cable length	10 m	20 m	30 m

Assembled BNC cable

The high-quality assembled coax cable ensures a perfect connection.

- BNC connector plugs on both ends
- 75 Ω
- Lengths: 1, 2, 3, 5 or 10 m

Article number	TV8621	TV8622	TV8623	TV8625	TV8620
Cable length	1 m	2 m	3 m	5 m	10 m

Video noise filter

Due to the different ground potentials, ground loops may occur, which will have a very negative effect on the video image. Some typical signs that there is a ground loop in the video signal are: Vertical rolling in the image, a horizontally distorted image, a noisy image. The noise filter can remedy this if it is used before the video input of the monitor or video-processing device. It is capable of balancing the different potentials in order to prevent faults in the LF and HF range.

Before

After

- BNC video input: 1 Vss (75 Ω)
- BNC video output: 1 Vss (75 Ω)
- Incoming loss 0.5 dB
- Frequency response 0 - 3 dB for 10 MHz
- 2x15 cm video cable

Article number	TV8727

Surge protection

Reliably and cost-effectively protect your cameras and digital recorders from excessive electrical voltages (e.g. lightning strike or static discharge) using the surge protector set. This way, you can prevent damage to your expensive equipment.

- Minimum response time (1ns)
- Surge protection up to 4 KV
- Insulation resistance: 10,000 M Ω
- Durability: 300x100 A
- Insertion loss: <0,2 dB
- Return loss: 16 dB
- Abm. (BxHxT): 25x25x78 mm

Article number	TV8728

Crimping pliers

Well designed professional tool for all crimp connections.

Article number	TV8613

BNC crimp connector plug

The quick, high-quality assembled connection for BNC cables.

Article number	TV8610

Insulation stripping pliers

With these pliers, stripping insulation is easy.

Article number	TV8614

BNC angled crimp connector plug

Corners and edges are not a problem with the angled connector plug.

Article number	TV8615

Adapter cable - BNC to Cinch

If you want to go over to cinch, this adapter cable is the tailored solution.

Article number	TV8671

BNC coupling

High-quality material ensures the perfect coupling of two BNC cables.

Article number	TV8612

RCA-BNC adapter

NEW

The perfect plug connection, if you want to go from RCA to BNC.

Article number	TV8616

BNC T-distributor

Make two from one! Distributes a BNC cable to two outputs.

Article number	TV8611

All are supplied

Regardless of whether its a mini-camera, speeddome or hybrid digital video recorder: Power supplys from ABUS Security-Center.

The mini fitting power supply unit and the 1500 mA CCTV switching power supply are ideally suited for supplying power to individual CCTV cameras. The 230 VAC provided by the mains are converted into the 12 VDC needed by the cameras. The fitting power supply unit is also ideal to use in outdoor housings.

If you would like to provide power to several cameras and CCTV components (IR illuminators, transmission sets), the CCTV power supply unit is the right choice. With eight separately fused outputs, the power supply protected from surges and short-circuits. And even in the event of a power failure, the components that are supplied by the CCTV power supply unit remain active - a 12 V / 7 Ah emergency battery takes over and supplies power in this case.

Mini-fitting power supply

This power supply is ideally suited for use in outdoor housings and concealed outlets.

- Stabilized mini-switching power supply unit
- Also ideal for installing in 55 mm concealed outlets
- Voltage: 230 VAC / 12 VDC (1000 mA)
- Dimensions (WxHxD): 50x24x50 mm

Article number	TV8371

CCTV switching power supply 1500 mA

Provides power to a wide variety of Eyseo cameras.

- Voltage: 12 VDC
- Amperage: 1500 mA
- Euro plug-in connector

Article number	TV7616

CCTV power supply unit

The CCTV high-performance power supply transforms 230 VAC into 13.8 VDC and acts as a central supply station for video surveillance systems. Eight separate connections are possible.
The power supply functions with both 230 VAC and 12V/7Ah emergency battery power (BT2070). A charging unit for the battery is integrated in the rugged metal housing of the CCTV power supply unit. The output current (rated current) is 2 A, 3 A or 5 A. The power supply unit is intended for indoor installation and monitored against sabotage via a tamper switch. Penetrations on the sides of the housing allow cables to be neatly laid. The status of the power supply unit is always known thanks to the LED control display. The eight outputs are individually fused and protected from over-load and short-circuits.

- Space for a 12 V/7 Ah emergency battery
- Charging unit for 7 Ah lead battery included (suitable battery BT2070)
- LED control display for power and fusing
- Monitored against sabotage (tamper switch)
- Metal housing
- Input voltage: 230 VAC
- Output voltage: 13.8 VDC (stabilized)
- Rated current: 2 A, 3 A or 5 A (for 5 A, includes a 1 A charging current for emergency battery)
- 8 individually fused outputs
- Surge and short-circuit-proof
- LED status display
- Weight: 4.2 kg
- Dimensions (WxHxD): 338x281x86 mm

Optional accessories:
Suitable VdS-battery 7 Ah (BT2070)

Article number	TV8376	TV8377	TV8378
Rated current	2 A	3 A	5 A

Security toolbox

Electronic side cutting pliers

Electronic needle-nosed pliers, curved

Electronic flat-nosed pliers, straight

VDE electronic screwdriver set

Rolled open-ended wrench (universal open-ended wrench)

Jokari wire stripper

Cable stripping knife

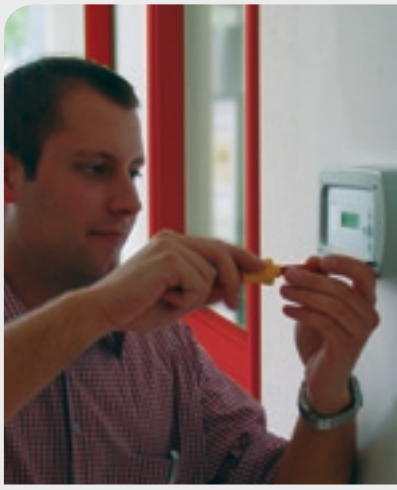
Twist drill for cable screws M12-32

solder sucker

The professional toolbox for all service technicians and installers of alarm and video surveillance systems. The rugged, lockable case with an aluminum frame holds everything you need for installing and servicing alarm and video surveillance systems. The high-quality tools (Made in Germany) are specially hardened and therefore very resistant to wear. The 30-piece set was put together by experienced service technicians and covers 95 % of all applications in the field of electronic security systems. With our complete set, you save more than 300 euros, in comparison to the MSRP.

1. Compact water level with magnet
2. Control cabinet key
3. 5m pocket-sized measuring tape (19 mm wide)
4. Safetyline VDE combination pliers
5. Safetyline VDE telephone pliers
6. Safetyline VDE stripping pliers
7. Wire cutters 200 mm
8. Jokari super insulation stripper
9. VDE screwdriver set
10. Voltage tester
11. PUK pocket saw
12. Hexagonal pin spanner set 9-piece
13. Hammer DIN 1041 ash 300 g
14. Crimping pliers for BNC/TNC plug connectors
15. Stripping tool for coax cable
16. Safetyline VDE pipe wrench
17. Professional gas soldering gun 25-125 Watts
18. Universal electrical tape 15x10 - 10 vers. Colors
19. Safety bit set
20. Professional pen-sized multimeter (Volts, Amperes, Ω)
21. 10 piece BNC crimp connector plugs

All Inclusive!



If you want to make a professional impression, you need professional tools. Good equipment is often just as important as subject knowledge and product quality. It is also important to always have the right device at hand and on-site. All the more reason to use a high-quality, complete set of tools in a rugged case. Whether it is for video surveillance systems or alarm systems, the right tool is by your side for any application. You no longer need to waste time searching for the right equipment. Just take the case with you and you are ready. All inclusive!

Valeri Helmut, Customer Support

"Good and accurate installation work requires professional tools."

Article number	WZ9500

Wireless Alarm Systems by ABUS Security-Center

From the cost-conscious entry-level beginner to the demanding professional: With this brand-new wireless alarm panel, you have the complete solution for any requirement. Whether it is a private home, office building or business - maximum security, operating convenience and quick installation are guaranteed!

Privest wireless alarm panel

The Privest wins over customers with its extraordinary price-performance ratio in the field of high-end alarm panels. The system gives private users and small to medium-sized businesses professional protection against a variety of dangers such as burglary, fire and water damage. The Privest is characterized by modern wireless technology on the reserved 868 MHz AM frequency band and a wide range of functions. Thanks to its being extremely easy to install and assemble, the system is also ideal for do-it-yourselfers.

- The latest AM wireless technology for outstanding coverage
- Integrated analog speech dialer for the silent alarm - this allows the alarm panel to send voice messages to private telephones, cellular telephones or a monitoring station to ensure that help arrives quickly
- Expandability to 32 wireless alarm zones and one wired zone - a large variety of different types of detectors ensures professional all-round protection against everyday dangers
- The smart solution for do-it-yourselfers and cost-conscious buyers who would rather install and assemble their system on their own
- Installation DVD (Do-it-yourself assembly and programming)

▶ **starting on page 102**

Secvest 2WAY wireless alarm panel

The premiere of the next generation of wireless alarm panels: The Secvest 2WAY combines innovative wireless technology with active anti-burglary protection and an outstanding design. With bi-directional 2-way wireless operation, it is setting new standards for status displays and operating convenience. With its comprehensive functions, the Secvest 2WAY is making waves in the absolute premium segment of wireless alarm technology and is winning over customers with its exclusive features:

- Innovative 2-way wireless: The system sends its current status to control components (wireless remote control, wireless cylinder, etc.)
- Ultimate ranges thanks to duplex antenna technology
- Active anti-burglary protection by means of integrating the FTS 96 E window lock from ABUS into the alarm panel
- Silent alarm via integrated analog speech dialer, expandable for ISDN and GSM - which makes it always usable, even without a telephone connection
- Expandable to 48 wireless alarm zones and 2 wired alarm zones
- Up to 20 wireless remote controls ensure maximum operating convenience
- Certified top quality: 3-year manufacturer‘s warranty on the alarm panel

▶ **starting on page 110**

privest.

secvest.

Article number	FU9010 - FU9013	FU8000 / FU8006
Signal transmission	868 MHz AM security frequency, rolling code	868 MHz FM security frequency, rolling code
Display	alphanumeric display	graphic display
Alarm zones	32 wireless zones, 1 wired zone	48 wireless zones, 2 wired zones
Number of wireless remote controls	8	20
Status light	no	yes
Switching outputs	2 relay outputs, 2 transistor switching outputs, 1 siren	2 relay outputs, 32 wireless switching outputs (optional)
Duplex antenna technology	no	yes
Power pack	external pluggable power supply unit, 9 VAC	integrated power supply unit, 230 VAC connection
Integrated speech dialer	Speech transmission	Speech & monitory station protocol, SMS
Individual voice announcement for zone texts	no	yes
Integrated sounder	Yes (90 dB @ 1m)	yes (97 dB @ 1m)
Backup battery	Yes, battery (re-chargeable)	Yes, battery (re-chargeable)
Chip-key/proximity reader	no	yes, integrated
PC interface	yes (integrated)	yes (integrated), USB
ISDN module (optional)	no	yes
GSM module (optional)	no	yes
Ethernet module (optional)	no	yes
Activity monitoring (alarm for motionless persons, e.g. seniors)	no	yes
Event memory	256 messages	250 messages
Partitions	3	4
Can be remotely serviced	yes	yes
Downloader software	exclusive	inclusive
Installation DVD	yes	no
Certification	no	EN, VSÖ, NCP, Incert
Warranty	24 months	36 months
Dimensions (WxHxD) in mm	240 x 196 x 45	285 x 206 x 45
Product in catalogue starting on	page 102	page 110

Quicker than you thought - thanks to the step-by-step instructions on the DVD

Save time and aggravation. Long installation times and complex assembly work are a thing of the past with the Privest. With the aid of the live installation instructions on the included DVD, the user can correctly install the entire system in no time at all.

The easy-to-understand installation video guides the user step-by-step through the installation of the center, the correct connecting of detectors and modules and the reliable teaching in of all of the components into the system. This ensures that even a system that is installed and assembled by an do-it-yourselfer will provide reliable protection.

An example installation on the DVD shows each step and answers the questions that are always asked by beginners.

Privest wireless alarm panel

The new Privest wireless alarm panel from ABUS Security-Center combines a timeless design with user-friendly operation. With its 33 zones (32 wireless, one wired) and its four programmable outputs, the alarm panel is the centerpiece for the good feeling of security. The innovative AM wireless technology operates within the 868 MHz band on the „security frequency," which is specially reserved for wireless alarm panels. Programming and operating are very easy thanks to the voice-based menu navigation. In the event of an incident, the residents are warned of such dangers as fire, water, burglary or emergency situations via the integrated Piezo sounder. In addition, the integrated speech dialer can also send a pre-determined voice message to a landline number (e.g. monitoring station) or mobile devices. Due to voice-based menu navigation, operation is intuitive.

- 32 freely programmable wireless alarm zones and one wired zone
- Up to 8 wireless remote controls
- Up to 2 wireless keypads
- 4 switching outputs
- Integrated analog speech dialer
- Ideally suited for DIY installation
- 868 MHz security frequency
- AM modulation
- Clearly laid out user guidance with speech output
- Operation via PIN code, remote control, wireless keypad unit and wireless key-switch
- Integrated loud Piezo alarm
- Up to 34 users with different levels
- Dimensions center (HxWxD): 196x240x45 mm

Delivery kit:
Wireless alarm panel and backup battery, installation DVD, installation manual

Optional accessories:
Pluggable power supply unit (FU9095)

Article number	FU9010	FU9011	FU9012	FU9013
Languages	German	English	Dutch	French

USB programming cable

With the practical USB cable, you can conveniently program the Privest wireless alarm panel from your PC.

- Easy to connect to a PC or laptop via USB
- Programming the entire system and all of the parameters
- Software can also be downloaded

Article number	FU9099

Pluggable power supply

The pluggable power supply provides power to the Privest wireless alarm panel.

- Output voltage: 9 VAC
- Rated current: 2000 mA
- Short-circuit proof
- Over-load protection
- Only for indoor applications

Article number	FU9095	FU9096
Plug-in connector	Euro	UK

Privest complete wireless alarm kit

Wireless alarm panel, wireless remote control, wireless opening and motion detectors: With these components, the Privest complete kit provides everything that you need for an entry level wireless alarm panel. Additional detectors and components can be integrated into the system at any time as the need arises. The Privest provides you with everything you need to secure your home, office or store. The comprehensive installation DVD and film will guide you step-by-step through the use of the system. Set the opening detector to secure windows or doors and monitor entire rooms with the motion detector. With the aid of the included wireless remote control, you can conveniently arm or disarm your entire alarm panel or just parts of it from anywhere. In the event of an incident, the system warns the residents via the integrated Piezo sounder and voice messages can be sent via the integrated speech dialer to a telephone connection or cellular telephone. This complete kit combines the latest wireless technology and comprehensive functions at an outstanding price-performance ratio.

The Privest complete wireless alarm kit consists of:

- Wireless alarm panel with power supply unit and backup batteries
- Installation DVD
- Installation manual
- Wireless opening detector incl. batteries
- Wireless motion detector incl. batteries
- Wireless remote control with rolling code

Article number	FU9000	FU9001	FU9002	FU9003
Languages	German	English	Dutch	French

Easy configuration via computer

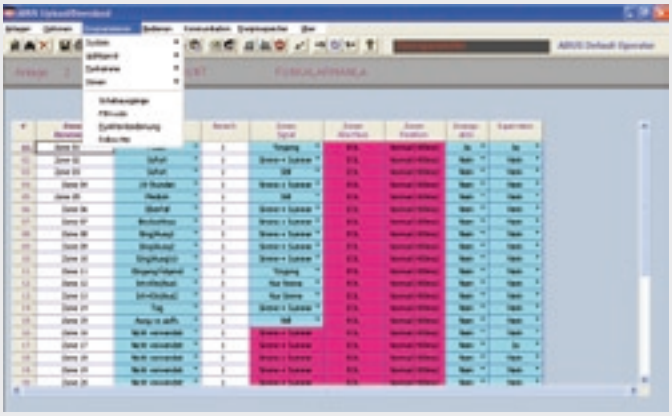
You can easily program your ABUS Privest wireless alarm panel via the USB adapter and the corresponding software. Connect the cable and the adapter to an USB port on your laptop or PC, then you can quickly access your ABUS wireless alarm panel via the easy to use software.
You can also download the programming software at http://www.privest.eu/Service_and_Support.php

All of the settings at a glance!

In contrast to the LCD display of the Privest, the software gives you all of the setting options at a glance. Via the „Program“ menu item, select the setting of zones and switching outputs of the wireless siren and the integrated speech dialer. Also on a clearly laid out interface, you can see all of the system settings and user settings and all of the remote controls.

Convenient event memory

From the software interface, you can read the event memory and save your system‘s settings to your computer and print them out.



Another advantage of the software: The entire event memory can be conveniently read and printed out with one click - multilingual.

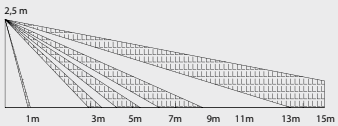
Dr. Marc Schacherer, Sales Director

“The Privest is the most cost-effective model for the entry into the world of wireless alarm technology. The installation can be carried out with the helpful DVD even by a do-it-yourselfer. This video guides you step-by-step through the required installations - from mounting the panel and the detectors to the initial set-up.“

Professional-level entry into the world of alarm technology

The name ABUS not only stands for innovation in the field of physical security, but also for high-quality and reliable electronic security products. The Privest wireless alarm panel is recommended for securing homes and small stores, because it can be installed in just a few steps without any wires. This makes this alarm panel the perfect model for entering the world of professional alarm technology.

Ranges and angle of beam



The PIR has a three-dimensional monitoring range. The possible direction of motion of a burglar should be at right angles to the detector. The volumetric detector is the most frequently used PIR. Its monitoring area - depending on the installation height - is 15 x 15 meters.

Privest wireless motion detector

The Privest wireless motion detector registers any relevant motion and can also reliably monitor large areas with a detection angle of 90° and a range of 15 m. The passive infrared motion detector (PIR motion detector) detects moving body heat and reports it to the wireless alarm panel.

- Field of view 90°
- Detection range 15 m
- Creep zone
- Incl. 3V lithium battery (lifespan approx. 2 years)
- Supervision: every 65 / 15 minutes
- Amperage: approx. 10 µA stand-by
- Weight: 106 g

Article number	FU9015

Pet immune wireless motion detector

The Privest PET wireless motion detector is a pet-immune motion detector. It detects the difference between a human and a pet.

- Pet-immunity: up to approx. 30 kg
- Field of view: 90°, creep zone
- Detection range: 12 m
- Incl. 3V lithium battery (lifespan approx. 2 years)

Article number	FU9020

Privest wireless flood detector

The Privest wireless flood detector detects water via the connected external sensor and passes the message on to the alarm panel.

- For monitoring cellars, washing machines and drains
- Flexible installation of the water level sensor
- Incl. 3V lithium battery (lifespan approx. 2 years)
- 2 m cable length for the water sensor
- Dimensions (WxHxD): 30x118x27 mm

Article number	FU9040

Privest wireless smoke detector

The optical wireless smoke detector reliably warns against dangers from smoke and fire.

- Detection range: up to 40 m²
- Incl. 3V lithium battery (lifespan approx. 2 years)
- Integrated Piezo siren
- Dimensions (ØxH): 100x36 mm

Article number	FU9035

Privest wireless opening detector

Colour option

Mounted on a window or door, the wireless opening detector with an integrated magnetic contact immediately triggers an alarm when an unauthorized person enters the room. Additional wired NC contacts can also be connected to the magnetic contact transmitter.

- Integrated magnetic contact
- Connection option for external NC contact (CC)
- Incl. 3V lithium battery (lifespan approx. 2 years)
- Dimensions (WxHxD): 71x82x47 mm
- Available in white or brown

Article number	FU9025W	FU9025B
Colour	white	brown

Privest wireless seismic detector

The Privest wireless seismic detector responds to mechanical vibrations that typically occur when walls, doors, safes or large window surfaces are broken into. The detector is mounted on a window frame or leaf of a door.

- Reacts to mechanical vibrations
- Settable sensitivity
- Monitored against tamper by means of lid contact and tamper-proof seal
- Incl. 3V lithium battery (lifespan approx. 2 years)
- Dimensions (WxHxD): 30x118x27 mm

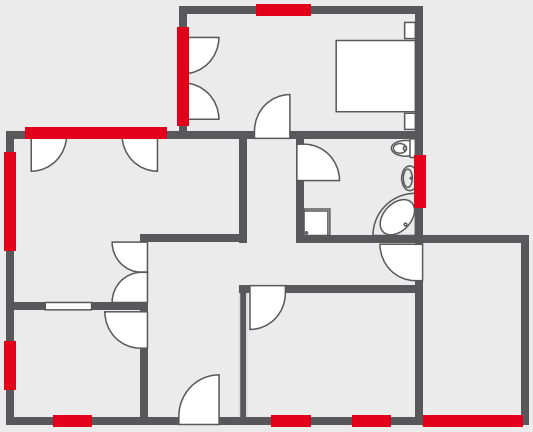
Article number	FU9050

Reliably protected!

Windows, doors, cellar doors, hatches: These are the ways that a burglar can possibly enter a home. Exterior surveillance or interior security is provided in order to efficiently secure buildings.

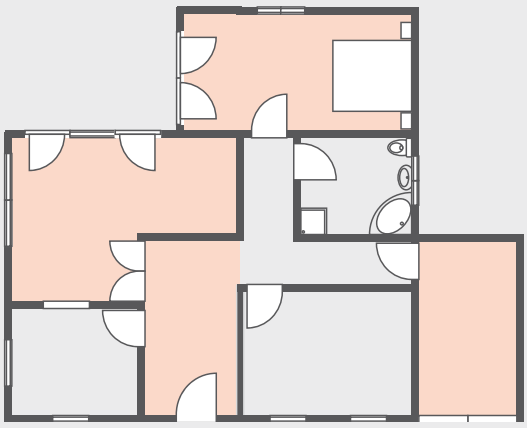
Sheathing security system

With sheathing security system all of the access ways (openings) to the property are monitored. The advantages: The alarm is triggered even before the burglar enters the home. It is possible to have surveillance while simultaneously occupying the home.



Interior security

With interior security, only the interior of the property is secured. This primarily secures the areas which a burglar would most likely have to pass through. A sort of trap is set for the burglar using just a few detectors. This kind of security system is a cost-effective variant, because only a few detectors are needed. However, the burglar is detected rather late. Of course, it is possible to combine sheating security system and interior security.



Arming made to order

Whether you are using the PIN code, key switch, keypad or remote control - arming and disarming the Privest wireless alarm panel is child's play.

PIN code entry: Arming and disarming at the push of a button

Wireless key switch: Arming and disarming in seconds

Wireless keypad: Access the system from any room

Wireless remote control: the convenient solution in a pocket-sized, handheld form

Privest wireless key switch

The wireless key-switch is used in combination with the wireless alarm panel for arming or disarming the system or its partitions. The key-switch is protected to an increased degree against attacks from outside by the cover and wall tamper-proof switch, the cylinder protection and the high-quality cylinder from ABUS.

- Arming and disarming without a code (false alarm-proof)
- High level of security thanks to cylinder protection and a rugged ABUS cylinder
- Tamper protection thanks to the cover and wall switch
- Two switching contacts (can be configured as switches or buttons)
- Two integrated LEDs for status display
- Load bearing capacity of contact: 30 V/DC/0.5 A
- Protection class: IP55 (protected against dust and streaming water)
- Can be ideally used in protected outdoor areas (entry doors, garage doors, gated entrances, etc.)
- Incl. 3 keys
- Incl. 9 V battery
- Dimensions (WxHxD): 85x114x42 mm

Article number	FU9070

Privest wireless keypad

Using the wireless keypad, the Privest alarm panel can be armed or disarmed from different locations using a PIN code. The switching outputs of the system can also be controlled and a panic or fire alarm can be triggered. The keypad also has tamper protection and a LED display for battery and function status.

- Up to 2 wireless keypads can be used
- PIN code operation from different locations
- 3 functions (arming, internal arming or disarming)
- With a manual panic, fire and emergency call alarm function
- Indoor settings
- LED status display for battery and function status
- Monitored against tamper by means of lid contact and tamper-proof seal
- Incl. 3V lithium battery (lifespan approx. 2 years)
- 868 MHz AM security frequency
- Dimensions (WxHxD): 165x113x34 mm

Article number	FU9045

Privest wireless remote control

You can use the wireless remote control to conveniently operate your Privest wireless alarm panel from anywhere inside and outside of your property. You can arm and disarm the system, use switching outputs or trigger a panic alarm at the push of a button.

- Up to 8 wireless remote controls can be used
- Push-button operation without a PIN code (false alarm-proof)
- Clearly laid out LED status display
- A small handheld remote control that fits in any pocket
- range up to 200 m
- Keys for arming and disarming the Privest wireless alarm panel
- Switching of outputs
- Triggering a panic alarm
- Incl. 3V CR 2430 battery (lifespan approx. 2 years)
- 4-keys (arm/disarm/panic function/ switching contact)

Article number	FU9031

Privest wireless outdoor sounder

The Privest wireless outdoor sounder can be installed indoors or outdoors. The signal is transmitted to and from the panel via wireless technology. The outdoor sounder is a sounder-flash combination. In the event of an alarm, the siren generates an extremely loud tone (more than 105 dB of acoustic pressure). In addition to the siren, there is a visual alarm in the form of a flashing red LED which is visible from far off (flashing frequency: 1 Hz). It is possible to control the siren and the flash light separately. The stable, outdoor housing is protected from tamper by a wall contact and a lid contact. The power supply is already integrated in the housing (5x 3 V lithium battery).

- Loud 105 dB Piezo sounder
- Adjustable flash frequency
- Incl. 5x CR123, 3V lithium battery (lifespan approx. 2 years)
- Monitored against tamper by means of lid contact and tamper-proof seal
- Siren volume: 105 dB @ 1 m
- Extremely loud
- Rugged, weather-proof plastic housing
- Protection class: IP44
- Flash frequency: 1Hz
- Weight: 1,000 g
- Dimensions (WxHxD): 192x337x60 mm

Article number	FU9080

Privest wireless indoor siren

The Privest wireless indoor siren with its loud Piezo sounder is used to warn the residents in the event of a fire alarm (for example). Thanks to the battery-operated module, the indoor siren can be flexibly installed on-site. It is also possible to install several indoor sirens in one house.

- Rugged inside sounder
- Loud 105 dB Piezo sounder
- Incl. five CR123 3V lithium batteries (lifespan approx. 2 years)
- Monitored against tamper by means of lid contact and tamper-proof seal
- Dimensions (WxHxD): 120x146x50 mm

Article number	FU9090

The end of the chain...

The sounders are the last and critical link in a completely functioning alarm chain. It is only by means of these sounders that the neighbours are notified of a particular event. If the alarm panel judges an event to be an alarm situation, it has several options as to where and how the alarm will be triggered.

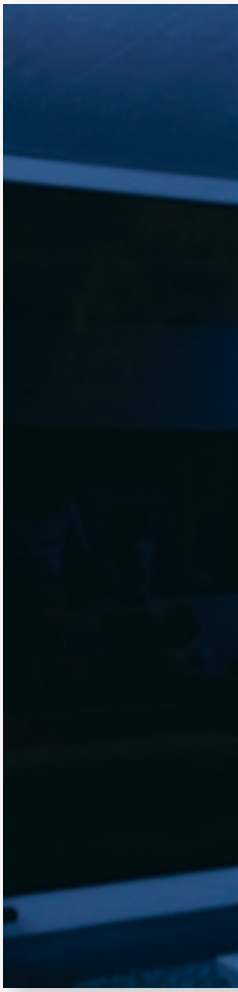
Acoustic and visual alarm

Sirens are responsible for the acoustic alarm signaling. They are available in many different versions for indoor and outdoor use. The sounder generates a penetrating warning tone, which frightens the burglar and „deafens“ him so that he can‘t hear the sounds around him. The duration of an acoustic alarm is limited to 3 minutes outdoors (Germany). The visual alarm is in the form of a flash light. Unlike acoustic alarms, flash lights can remain active for an unlimited amount of time.

The conspicuous flashing of the sounder not only serves as an alarm, it also helps responders locate the alarm. The flash light should always be aimed at the street so that it can be seen from a distance.

Secvest 2WAY wireless alarm panel

The world's first complete system made up of electronic and mechanical security, which is one step ahead of any burglar and is setting new standards in operating convenience with it's 2-way wireless technology!



secvest.

Secvest 2WAY wireless alarm panel

Elegance that sets standards and does a great job of selling itself!

With its stylish, timeless design, the panel looks good in any surroundings. The status light shows you at a glance whether the panel is activated or not - Convenient operation that is easy to see!

▶ **Page 110, 121**

Secvest 2WAY wireless outdoor sounder

New and completely wireless!

Now even easy to set up: Direct wireless operation - thanks to the integrated transmitter/receiver (100 m). Lithium batteries guarantee a max. lifespan (2-3 years).

▶ **Page 118**

Wireless window lock FTS 96 E

Active anti-burglary protection

Massive steel catches foil attempts to lever up the window at its weak point - Electronics sound the alarm before the burglar gets in. ABUS FTS 96 upgrade kit: Convert the proven mechanical securing system into Secvest 2WAY components!

▶ **page 114**

Secvest Key 2WAY wireless cylinder

Develop new operating convenience!

Now bi-directional: The world's first cylinder that automatically arms/disarms the panel when the door of the building is unlocked or locked and confirms the status by means of an acoustic signal.

▶ **Page 113**

Secvest 2WAY wireless keypad

For indoor and outdoor use!

Arm or disarm the panel from up to four keypads - contact-free with the chip key. Whether you are indoors or outdoors: The 2WAY keypad shows the current status of the system.

▶ page 112

Secvest 2WAY wireless remote control

Know what's going on:

The new Secvest 2WAY wireless remote control always shows the status of the panel via four colour LEDs. With one push of a button, you can find out if the system is armed - 100% false alarm-proof.

▶ page 112

Range of features

50 alarm zones: Security in grand style!

A thoroughly solid system: 48 wireless zones, 2 wired zones, individual zone texts and up to 20 wireless remote controls - the number one solution, even for large properties.

▶ Page 110, 112

Certifications

Unique security: Good arguments for installers!

Its compliance with the EN standard confirms the top quality of the Secvest 2WAY as an alarm panel. International certifications include VSÖ, Incert, NCP and F&P.

▶ Page 110 - 121

Elegant security

The blue status light shows the current status of the Secvest 2WAY. Optional, depending on the selected assignment, e.g.: Disarmed (light off), armed (light on) and alarm (light flashing).

In combination with the FTS 96 E wireless window lock, the Secvest 2WAY is the first alarm panel that actively protects against break-ins.

Proximity chip key

Arming and disarming the alarm panel has never been this easy and convenient.

- To arm or disarm the system, just stop near the Secvest 2WAY wireless keypad.
- Completely contact-free
- No more „forgetting your PIN code“

Article number	AZ5501

Secvest 2WAY wireless alarm panel

The Secvest 2WAY is the fourth generation of the Secvest wireless alarm panel from ABUS Security-Center. With an innovative status light display, several bi-directional control elements, 48 wireless zones and 2 wired zones, it is setting entirely new standards in terms of function and design. Secvest also means physical protection: In addition to its several capabilities to sound an alarm, Secvest 2WAY is the first alarm panel which actively protects against break-ins. Therefore in addition to alarm technology detectors, the new FTS 96 E wireless window lock can also be integrated into Secvest 2WAY. In the event of an attempted break-in, the FTS 96 E actively confronts the burglar with almost insurmountable physical resistance, while the alarm panel simultaneously sounds the alarm during the first attempt. Mechanical and electronic home security can be seamlessly integrated here into a unified security plan. The Secvest 2WAY panel is not the only thing that is fundamentally new, the components and accessories are also mostly of a later generation. This includes the new remote control with 2-way communication: It has four buttons, three of which control the functions „Arm,“ „Disarm“ and „Status.“ The fourth can be freely programmed for such things as „Switch outputs“ or „Arm internal.“ The 2-way communication always gives the user a confirmation. Four multi-coloured LEDs on the remote control indicate the current status. The same 2-way technology is used by the new indoor and outdoor wireless keypad, the new Secvest Key and the wireless key switch.

- The background lighting of the display and of the keypad can be adjusted and switched off.
- Flashing status light in the event of an alarm
- Convenient operation with bi-directional wireless components
- Seamless all-round protection for apartments, practices or commercial complexes
- Active protection is possible with the FTS 96 E wireless window security system
- LCD plain text display
- Speech output for operation and programming
- Individual zone texts in the display and as an announcement text
- 48 wireless detector zones and 2 wired zones
- 2 relay outputs, 32 wireless switching outputs (optional)
- Up to 20 wireless remote controls
- Up to four keypads
- Integr. analog telephone dialler with speech and monitoring station protocol
- Backup battery included
- Integrated power supply unit 230 VAC
- 868 MHz FM security frequency, narrow band
- The latest FM wireless technology
- Duplex antenna technology
- Integrated contact-free proximity chip reader
- Optional pluggable ISDN, GSM or Ethernet module
- 250x event memory with plain text and time
- Available in several languages
- Certifications: EN, F&P, VSÖ, NCP, INCERT
- Weight: 2,000 g
- Dimensions (WxHxD): 205x285x43 mm

Article number	FU8000	FU8006
Languages	German, Dutch, French	English, Danish, Italian

GSM module

The GSM module transmits voice texts, monitoring station protocols and SMS messages via the mobile wireless network. In addition to the integrated analog dialler, the Secvest 2WAY with a GSM module has a second, redundant path, for sending alarm messages.

- Transmits voice texts and protocols
- Redundant transmission in the event of PSTN failure
- Ideal for buildings without telephone connection (vacation homes, etc.)
- Easy to install
- Antenna concealed in the interior of the Secvest housing

Article number	FU8010

ISDN module

The ISDN module transmits voice texts and monitoring station protocols via ISDN telephone lines. In addition to the integrated analog dialler, the Secvest 2WAY with an ISDN module has a second, digital telephone output.

- Transmits voice and protocols
- Redundant transmission via PSTN and ISDN
- For properties without an analog connection
- Easy to install

Article number	FU8020

Ethernet module

The IP module is a new communication module of the Secvest 2WAY. Integrated in the alarm panel, the user can send IP-based alarm messages and communicate with the system via the installation software.

- For IP-based alarm messages
- For worldwide access to the Secvest 2WAY
- Redundant transmission in the event of PSTN failure

Article number	FU8030

USB programming cable

The practical USB cable for convenient programming of the Secvest 2WAY at the PC.

- Easy to connect to a PC or laptop via USB
- Programming the entire system and all of the parameters is possible
- The software that is delivered with the Secvest panel can also be downloaded

Article number	FU5009

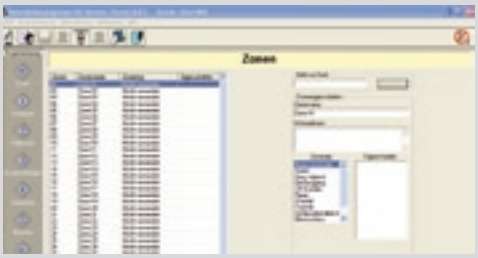
Programmed even faster

You have two options for programming the Secvest 2WAY: Via the clearly laid out LCD menu or via software. The installation software is integrated in the delivery kit of the Secvest 2WAY wireless alarm panel. You can also download it at www.abus-sc.com.

This is how it functions:

Install and start the software (the password is „Security“). Then select the type of panel and set up your customer. Here, you assign a username (customer „John Doe“) and a serial number (secret number). These two pieces of information are set in the Secvest 2WAY the first time you connect. From that point on, any future connection via software is only possible if you know the username and the secret number. If the customer is set up on the software interface, connect the PC to the Secvest 2WAY and select yourself on the system.

All of the settings at a glance!



The zones, outputs, partitions, system settings, etc. are defined and named when the software is installed via the keypad and mouse.

Andreas Kupka,
General Manager

“The new Secvest 2WAY is the best Secvest ever. With the ultimate in operating comfort, bi-directional components and active protection, it is setting new standards in the market. Our competitors at SECURITY Essen 2008 were impressed by the unique design and range of functions of this system, which leaves nothing to be desired.“

Keys and key combinations

The revolution in operating convenience and flexibility: remotely control your system and always know your current status! Four keys are available to you on the bi-directional wireless remote control: One for arming - one for disarming the Secvest 2WAY. Simultaneously pressing the arming and disarming keys triggers a panic alarm. Pressing on the third key (the „?“ key) queries all of the important information about the status of your alarm panel (armed, disarmed, internally armed, fault). You see the confirmation directly on your remote control. The fourth key is freely programmable. In addition to the internal arming, you can also use this key for switching an output (e.g. for controlling the garage door). The fourth key is programmed on the Secvest 2WAY.

Wireless remote control

Operate the system from anywhere and know what is going on at the same time:
With the new bi-directional wireless remote control, you can arm or disarm the Secvest 2WAY from anywhere in the coverage area at the touch of a button. In addition you can query the current status of the system at any time. You get immediate confirmation of changes in the system via the four integrated LEDs on the wireless remote control. In addition to the pre-defined keys, you have the option of freely programming the fourth key of the wireless remote control however you desire.

- For elegant and convenient operation of the Secvest 2WAY
- 4 LEDs for displaying the current system status
- Direct acknowledgement of a change in the status
- Freely programmable fourth key
- Manual panic alarm possible
- Certifications: EN, F&P, VSÖ, NCP, INCERT

Delivery kit:
Wireless remote control, ABUS lanyard, instructions, spare batteries

Article number	FU8100

Wireless keypad

Installed in various sections of your building, these expansion modules provide added convenience. The wireless keypad is a bi-directional component of the Secvest 2WAY. Using it, you can operate your wireless alarm panel and see the current status of the panel. You can arm and disarm your Secvest 2WAY from any wireless keypad using a PIN code. It is also possible to switch outputs. If the wireless keypad is externally supplied with 12 V, it is also possible to operate it with a proximity chip key. Up to 4 keypads can be integrated in the alarm panel. Thanks to the IP54 protection class, you can use the wireless keypad in protected outside areas.

- Integrated proximity chip key reader (only with 12 V power supply)
- Suitable for use in protected outside areas
- Switching of outputs possible
- Power is supplied via a battery and/or power supply unit 1.5 Ah (FU3822)
- Freely programmable keys
- Certifications: EN, F&P, VSÖ, NCP, INCERT

Article number	FU8110

Wireless key-switch

No more forgetting your PIN code thanks to the bi-directional wireless key switch: This component of the Secvest 2WAY replaces inputting the code at the panel or keypad by means of simply turning a key. Two integrated impulse LEDs on the rugged housing of the wireless key-switch show the status of the system for each switching procedure. This rules out a false alarm due to incorrect operation. Thanks to the modern design, the wireless key-switch can be ideally integrated into any entrance area. With protection class IP55, you can also use the wireless key-switch in the protected outside area.

- Easy arming/disarming of the alarm panel
- Easy installation and operation
- Rugged housing
- Suitable for protected outside areas (IP55)
- High level of security due to the cylinder protection
- Operates on batteries or power supply unit (also suitable for 12 V)
- Half-cylinder: 10/30
- Dimensions (WxHxD): 87x117x47 mm

Article number	FU8165

Secvest Key 2WAY wireless cylinder

Proven product with new technology: The bi-directional Secvest Key 2WAY wireless cylinder is the first cylinder, which automatically disarms the Secvest 2WAY when it is unlocked and arms it when it is locked - and which simultaneously acoustically indicates the current status of the alarm panel. It is very easy to install the new Secvest Key 2WAY wireless cylinder: The old cylinder comes out and the wireless cylinder goes in. The door knob is located on the inside of the door. Then the Secvest Key 2WAY is secured with the cylinder screw - and you are finished. The wireless cylinder fits in all doors with a Euro profile. It can be integrated in all ABUS lock systems and also in cylinder systems from other manufacturers. If the wireless cylinder is read into the system, the usual „unlocking of the door" is sufficient to disarm the alarm panel. In order to arm the system, the button on the door knob must be pressed before locking. Without pressing this button, you can still lock the door, but the system will not be armed. The wireless cylinder is available in various lengths for outer and inner dimensions (from 30/30 mm to 70/75 mm).
The delivery kit includes 3 keys. You can re-order matching replacement keys for the Secvest 2WAY wireless cylinder or have a copy made by the key service.

- Bi-directional wireless lock cylinder
- Acoustic status confirmation (armed/disarmed)
- Convenient arming and disarming of the Secvest 2WAY
- Can be integrated into other lock systems
- Three additional keys in the delivery kit
- Available in several designs to fit any door
- Easy single button operation, also suitable for seniors

The Secvest Key wireless lock cylinder is available for cylinder systems from other manufacturers. This makes it possible to integrate Secvest Key into existing lock systems without replacing them. This greatly expands the application area of this user-friendly arming/disarming solution. The Secvest Key wireless lock cylinder is available for cylinder systems from these manufacturers: PFAFFENHAIN · KESO · KABA · WILKA · EVVA · CES · IKON (except for P profile)

Current information and other lengths can be found on the Internet at: www.abus-sc.com
Available as of April 2009

An overview of our most popular models:

Article number	FU5901	FU5910	FU5911	FU5920	FU5921	FU5929	FU5930	FU5939
Outer dimensions mm	30	35	35	40	40	45	45	50
Inner dimensions mm	35	35	40	40	45	40	45	45

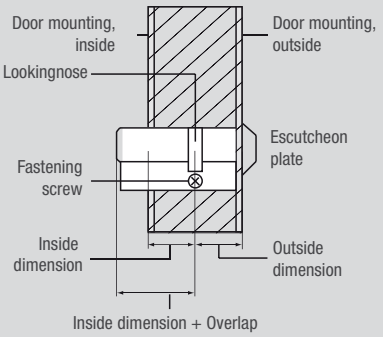
Replacement key

Matching replacement/additional keys for the Secvest Key. It is best to order these when you order the system!

- Additional keys for family members
- First-class design

Article number	FU5998

This is how you find the correct cylinder length



Method of operation:

1. You can determine the outer dimension by measuring the length from the center of the fastening screw to the outside of the collar (or the bracket).
2. You can determine the inner dimension by measuring the length from the center of the fastening screw to the inside of the collar (or the bracket). Add an overhang of 5 mm to the inner dimension.

Just press the button on the door knob. When the door is locked, the Secvest 2WAY is automatically armed. If you don't push the button, you can lock the door without arming the system.

More convenient than ever before: As soon as you unlock the entry door, the Secvest 2WAY is automatically disarmed.

The attempt is already reported

The Secvest 2WAY is the world's first alarm panel that actively protects against break-ins. Therefore in addition to the alarm detectors (opening, motion, glass breakage, etc.), the new ABUS FTS 96 E wireless window security system can also be integrated into system.

A special sensor is integrated into the wireless window lock. This sensor detects torsional forces that occur during an attempted break-in - and the FTS 96 E signals this to the Secvest 2WAY. Depending on the status of the alarm panel, this first attempted break-in will already have been signalled. The FTS 96 E can also be integrated into the Terxon-X series via the wireless expansion module.

Which windows are open? The wireless display module knows the answer:

The wireless display module (page 121) is an important supplement to the FTS 96 E and other opening detectors. This allows you to see the status of windows, doors and detectors at a glance (window/door open/closed, battery, tamper).

Wireless window lock FTS 96 E

The perfect interaction of mechanical and electronic elements: With the FTS 96 E wireless window lock from ABUS and the Secvest 2WAY from ABUS Security-Center, mechanical and electronic security technology can be integrated into a unified security concept. The wireless window lock is suitable for all windows that open inward. With a pressure resistance of approx. one ton, the FTS 96 E offers significant physical resistance to the burglar by means of two massive steel bolts. At the same time, well before the mechanical securing system is maxed out, the Secvest 2WAY sounds the alarm and scares off the burglar. Thus, the fourth generation of the popular Secvest wireless alarm panel is the first alarm panel that actively protects against break-ins while simultaneously sounding the alarm.

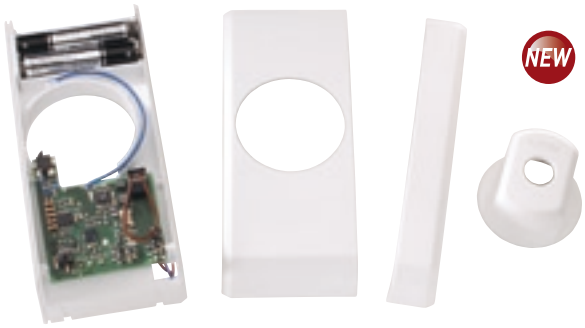
- VdS-approved window lock
- Catching steel bars
- Pressure resistance greater than 1 ton
- 868 FM MHz security frequency
- Magnetic field sensors
- Can be connected directly: 1 wired glass breakage detector
- Available in white and brown
- Master locking (1 key for all of the units)
- Incl. 2x 1,5V AAA batteries
- Incl. 2 keys

VdS

Colour option

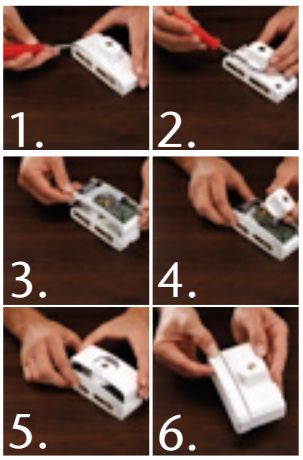
Article number (white)	FU8410W	FU8411W	FU8412W	FU8413W	FU8414W
Article number (brown)	FU8410B	FU8411B	FU8412B	FU8413B	FU8414B
Closure number	AL0089	AL0125	AL0145	AL0189	AL0307
Function	master locking				

Wireless upgrade kit for FTS 96 E



At first look, the purely mechanical FTS 96 window lock cannot be distinguished from the electronic FTS 96 E wireless window lock. With the wireless upgrade set, you can equip the mechanical FTS 96 window lock for use in the Secvest 2WAY. The wireless upgrade set includes: A new rotary knob, new protective cover and lock case/lock box, batteries and an electronic attachment. It is possible to upgrade previously installed FTS 96 locks at any time.

Retrofitting made easy:



*VdS-approved without wireless module

Article number	FU8402W	FU8402B

Wireless opening detector

Colour option

These high-quality magnetic contacts secure doors and windows. It is possible to also connect wired alarm detectors.

- Integrated magnetic contact
- Connection option for external NC or NO contacts (FU8320 only)
- Connection option for external NC contacts with terminating resistors (DEOL) (FU8321 only)
- Including 3 V lithium battery (lifespan approx. 2 years)
- Available in white or brown
- Dimensions (WxHxD): 33x89x29 mm
- Certifications: EN, F&P, VSÖ, NCP, INCERT

Article number	FU8320W	FU8320B	FU8321W	FU8321B
External contacts	CC	CC	FSL	FSL
Colour	white	brown	white	brown

Exterior surveillance provides effective protection

With exterior security, all of the access ways (openings) to the property are monitored. This includes house doors, terrace doors, cellar doors, hatches and all windows. With this surveillance concept, the alarm is triggered even before the burglar is in the house. It is possible to have surveillance while simultaneously occupying the home. This makes this type of security very popular and it is primarily used in private homes.

Wireless seismic sensor

This sensitive seismic sensor reliably detects vibrations that typically occur during an attempted break-in. An integrated filter makes the detector extremely false alarm-proof. The sensitivity can be adjusted via a potentiometer (adjustable resistor). The detector will then only sound the alarm in the event of massive vibrations due to blows from a hammer, drill, etc.

- Suitable for window panes, doors, walls, safes, etc.
- Detection range (diameter): 5 meters
- Including 3 V lithium battery (lifespan approx. 2 years)
- Dimensions (WxHxD): 30x118x27 mm
- Certifications: EN, F&P, VSÖ, NCP, INCERT

Article number	FU8380

Wireless glass breakage detector

This acoustic detector is installed across from glass windows and reacts to the specific sound of breaking window panes. The breaking glass is detected in two stages: Stage one is the shrill sound of breaking glass and stage two is the dull sound of glass hitting the floor. The detector only sounds the alarm when it detects this sequence, which guarantees ideal prevention of false alarms.

- Monitor large window areas with only one detector
- Detection range: 9 m
- Including 3 V lithium battery (lifespan approx. 2 years)
- Dimensions (WxHxD): 108x80x43 mm

Article number	FU8370

Wireless motion detector

The wireless motion detector detects moving (body) heat and signals it to the alarm panel. With a angle of view of 90° and a detection range of 15 meters, it monitors entire rooms. The creep zone prevents a burglar from slipping past the detector undetected.

- Passive infrared motion detector
- Field of view: 90°
- Up to 15 m detection range
- Monitors entire rooms
- Creep zone
- Incl. 3.6 V lithium batteries
- Dimensions (WxHxD): 73x81x47 mm
- Certifications: EN, F&P, VSÖ, NCP, INCERT

Article number	FU8350

Pet-immune wireless motion detector

This wireless motion detector is a pet-immune motion detector. While the detector reliably detects people moving about the room, it ignores pets that weigh less than 30 kg.

- Passive infrared detector for indoor areas
- Field of view: 90°
- Pet-immune (up to 30 kg)
- Up to 10 m detection range
- Creep zone
- Incl. 3.6 V lithium batteries
- Dimensions (WxHxD): 73x81x47 mm

Article number	FU8360

Wireless flood detector

The wireless flood detector consists of a basic unit (detector) and a water sensor. If the sensor comes into contact with water, the basic unit signals this to the alarm panel.

- It also warns about pipe breaks
- Easy to install
- Water-proof sensor
- Incl. 3.6 V lithium batteries
- Dimensions (WxHxD): 33x89x29 mm

Article number	FU8330

Wireless smoke detector

This optical wireless smoke detector reliably warns occupants in the event of a fire. It reacts to smoke particles and temperatures that exceed a maximum temperature of 65°C. These factors are reliably detected and signalled to the wireless alarm panel.

- Detection range: up to 40 m²
- Integrated maximum temperature detector (65° C)
- Integrated piezo siren
- Including 9 V battery (lifespan approx. 2 years)
- EN-compliant (EN14604)
- Dimensions (ØxD): 100x33 mm

Article number	FU8340

Wireless panic button

With the wireless panic button, you can inconspicuously and discretely trigger a panic alarm. Depending on the setting, it can be a silent alarm, which is sent directly to a monitoring station or it can be an acoustic alarm. The ideal installation location for the wireless panic button is in bedrooms, entry-ways and under counter-tops in stores.

- Convenient flush installation
- Triggers a silent alarm
- Made of thermoplastic material (plastic)
- Tamper monitoring
- Distance: up to 50 meters
- Incl. 3 V lithium batteries

Article number	FU8300

Wireless fire button

Sounding the alarm at the push of a button: With the wireless fire button, you can quickly and easily trigger a fire alarm. The wireless fire button can be easily integrated into the Secvest 2WAY. The wireless fire button is also monitored when the panel is disarmed.

- Convenient flush installation
- Reliably triggers a fire alarm
- Made of thermoplastic material (plastic)
- Tamper monitoring
- Distance: up to 50 meters
- Incl. 3 V lithium batteries

Article number	FU8310

Everyday protection means Secvest

The Secvest 2WAY doesn't just protect against burglars. As an alarm panel, it ensures all-round security against the major dangers encountered in everyday life such as fire, panic, medical emergency or material damage (e.g. water).

Emergency transmitter and emergency button

Whether quick or discrete: With emergency transmitters and buttons, you can get help at any time at the push of a button. The status of the center (armed/disarmed) plays no role in this - these detectors are always monitored. Robbery and fire buttons are read-in as a zone and the emergency call and panic transmitter are assigned to a user.

Compact emergency call transmitter in the form of an wrist band.

Wireless emergency call transmitter

With the wireless emergency call transmitter, you can expand your Secvest 2WAY into a senior care panel. With a weight of 14 g and dimensions of 44 x 32 x 13 mm, the transmitter fits into any pocket. One push of the button is enough to send an emergency call to a predefined number or a monitoring station via the integrated analog telephone dialler of the wireless alarm panel. In this way, the emergency call transmitter allows people, particularly seniors, to live in their own homes worry-free.

- Protected against streaming water
- Incl. batteries (lifespan up to 5 years)
- Small and handy
- For sending an alarm quickly in the event of an emergency
- Fasten it on your wrist or belt or hang it around your neck.
- Ideal for seniors, invalids, patients released from clinics, etc.

Article number	FU8390

Wireless panic transmitter

Fast and discrete panic alarm: With this handheld transmitter, you can inconspicuously trigger a panic alarm if attacked. Even if the system is disarmed, one push of the button is sufficient to transmit the panic alarm to the monitoring station.

- Protected against streaming water
- Incl. batteries (lifespan up to 5 years)
- Small and handy
- For sending a simple and discrete panic alarm
- Fasten it on your wrist or belt or hang it around your neck.

Article number	FU8305

Types of alarms

The type of alarm can be determined in various ways via the Secvest 2WAY. Which alarm is used when, can be defined in the system settings of the Secvest 2WAY.

Internal alarm

In the event of an internal alarm, the alarm only sounds inside the building. The alarm is then given by the panel, the info module and the wireless indoor sounder. The wireless outdoor sounder would remain silent.

Local alarm

In addition to the above-mentioned sounders, the wireless outdoor sounder now also sounds the alarm. In Germany, the acoustic alarm must be cut off after 3 minutes. The visual alarm remains on.

External alarm

In the event of an external alarm, the alarm is send from every available sounder. At the same time, a call is made to the monitoring station.

Silent alarm

No sounder is activated in this case. However, the system notifies a monitoring station. The silent alarm is primarily used for panic alarm situations.

Secvest 2WAY wireless outdoor sounder

The new wireless outdoor sounder is a sounder-flash combination, which is entirely wireless. In the event of an alarm, it generates a very loud alarm (105 dB acoustic pressure). In addition to the acoustic alarm, there is a visual alarm in the form of a strip of red LEDs that can be positioned at the top or the bottom of the siren. The wireless range is up to 100 meters. The flash light and siren are controlled separately. This means that the flash light can continue to flash, while the acoustic alarm ends after a predetermined period of time. The wireless outdoor sounder is protected against tamper via a cover and tamper-proof switch. In the event of tamper, the wireless outdoor sounder either automatically sounds the alarm or it passes the tamper message on to the Secvest 2WAY panel. Depending on the programming, the center either gives or doesn't give the command to activate the sounder.

- The latest innovation: Completely wireless
- Acoustic pressure: 105 dB(A) at 1m
- Visual alarm - strip of flashing LEDs (top or bottom - optional)
- Flash frequency: 1 Hz
- Distance: up to 100m (depending on the ambient conditions)
- Incl. 2 x 3 V alkaline battery pack (optional: 1 x 7.2 V lithium battery pack - recommended if the siren is regularly exposed to temperatures below 0°C)
- Battery lifespan: approx. 2 years
- Weight: 1,200 g (without batteries)
- Safety class 2
- Environmental class IV
- Operating temperature: -25°C to +60°C
- Housing material: Polycarbonate (weather-proof)
- Certifications: EN, F&P, VSÖ, NCP, INCERT
- Dimensions (WxHxD): 210x300x60 mm

Article number	FU8220

Secvest wireless indoor siren

As a purely indoor siren, the wireless siren supports the wireless outdoor sounder and the panel of the Secvest 2WAY with its 90 dB alarm signal in an alarm situation. The siren and the panel communicate with each other on 868.6625 MHz, a frequency that is specially reserved for the security industry. The wireless interior siren can be powered by a battery or a power supply unit. When batteries are used, the lifespan is approx. 2 years. A battery that is becoming weak is indicated to the Secvest 2WAY via the panel and a red LED is illuminated on the siren itself.

- Acoustic pressure: 90 dB
- For acoustical support of the Secvest and the wireless outdoor sounder
- Power is supplied via a pack of two 3 V alkaline batteries (included in the delivery kit) or a power supply unit (optional: FU3822)
- Battery status display
- Easy installation
- Certifications: EN, F&P, VSÖ, NCP, INCERT
- Dimensions (WxHxD): 122x208x60 mm
- Available as of February 2009

Article number	FU8230

Wireless info module

Install the wireless info module on an extra entry-way or in different rooms in the house. It tells you all of the processes and statuses of the Secvest 2WAY via an LED display and various signals and warning tones. The most important system information, such as the statuses of the individual partitions, etc. can be seen at a glance thanks to the eight LEDs. The internal piezo siren also provides a loud (up to 110 dB) internal alarm in an alarm situation. The wireless info module can be located up to 30 meters away from the panel, depending on the structural conditions.

You can see the following system statuses on the 8 LEDs of the info module:
- Voltage display
- Reception of a valid signal
- Status of the partition to which the info module is assigned (internally armed / armed / disarmed)
- Information available after reset
- Open zones
- The input or output delay time is running
- An alarm has been triggered

Alarm tones:
- Fault: The system cannot be armed
- A zone was opened/closed again during the output delay
- Input delay is running
- Door gong
- Panel successfully armed
- Read-in signal received
- Exit setup mode

Technical data:
- Environmental class II
- Safety class: 2 EN50131-1, -3
- Protection class: IP 54
- Operating temperature: -10°C to +55°C
- Power supply: 9-14V DC, 12 VDC nominal
- Frequency: 868.6625 Mhz
- Eight different LED displays
- Piezo siren up to 110 dB
- Weight: 200 g
- Dimensions (WxHxD): 124x124x40.7 mm

Optional accessories:
Secvest switching power supply (FU3822), surface mount power supply (TV8371)

Article number	FU8200

Wireless display module

Via the wireless display module, you get a quick overview of the status of the Secvest detectors in the house. Here, you can see at a glance whether a detector or a window is open or closed. The module has a convenient status display for the FTS 96 E wireless window lock and the Secvest wireless opening detectors - even in stand-alone mode (without the alarm panel). However, if the window locks are operated in combination with a Secvest 2WAY , the module is an important supplement - window lock and wireless opening detectors can be read-into the display module and the alarm panel at the same time.

- 16 display channels, individually programmable
- Display module has own status display
- Compatible with the FTS 96 E wireless window lock and Secvest wireless opening detectors
- Power supply: 12 V
- Incl. pluggable power supply
- Dimensions (WxHxD): 135x220x45 mm
- Available as of February 2009

Article number	FU8403

Secvest switching power supply

Ensures the Secvest 2WAY components are supplied with power.

- Voltage: 12 VDC
- Amperage: 1500 mA
- Euro plug-in connector
- Suitable for info module, keypad, indoor siren, universal module

Article number	FU3822

Surface mount power supply

An inconspicuous power supply is possible with the surface mount power supply.

- Mini-power supply for the info module, keypad, siren and universal module
- For installing in 55 mm surface mount outlet sockets
- Stabilized power supply 230 VAC / 12 VDC (1000 mA)

Article number	TV8371

One module, seven functions

The wireless universal module now has more on its case!
In addition to the standard functions that the module performs when it is integrated into a Secvest 2WAY, two additional functions are added in combination with wired alarm panels. Used as a receiving module, you can integrate eight wireless detectors into any wired alarm panel. Thus, you can make a hybrid system out of the Terxon SX alarm panel, for example. All wireless detectors of the Secvest generation can then be integrated into the security system locally and flexibly. If you would like to increase the wireless range of the detectors, use the universal module as a repeater module. This allows long distances to be bridged without using cables.

In combination with the Secvest 2WAY, the universal module is preferred used in transmitting/receiving mode. Thus, you gain four additional switching outputs and one alarm input (alarm zone and tamper zone) via the universal module. Eight universal modules can be integrated into the Secvest 2WAY. This means that up to 32 wireless outputs are available on your alarm panel.

Secvest 2WAY wireless universal module

The multi-faceted capabilities of the wireless universal module are nearly unbeatable. As the name suggests, it can be used universally and it combines seven different functions in one device. You decide which functions you need during the installation. You can use the wireless universal module as a wireless repeater, wireless output module, transmitting/receiving module, siren module, wireless receiving module or as a siren transmitter/receiver module.

- Used as a wireless repeater, the universal module doubles the range of 8 wireless detectors.
- If you use the universal module as a wireless output module, you can control four relays (switching capacity 500 mA) per module. In this way, you can control different functions (e.g. the outside lighting) via the Secvest 2WAY.
- Configure the universal module as a transmitting/receiving module and you can integrate wired alarm detectors into the Secvest wireless alarm panel. This gives you an alarm input, a tamper connection and a 12 V connection for supplying power to the connected detectors. You can also use the four switching outputs of the module.
- Programmed as a siren module, you can integrate other external sounders into the Secvest 2WAY.
- Use the universal module as a wireless receiving module if you would like to integrate the modern Secvest 2WAY wireless detectors into your existing wired alarm panel.
- Avoid unnecessarily long cables in your house by using it as the siren transmitter/receiver module. With this function, a siren is wireless integrated into a wired alarm panel.

- Power supply: 12 VDC
- Backup battery: 6 VDC, 1,2 Ah (accessory)
- Amperage: 70 mA at rest, 90 mA with activated relay, 240 mA with activated relay and battery charging
- Number of channels: 8
- Display: 10 LEDs
- Outputs: 4x transistor relays (NO/NC) max. switching capacity 500 mA @ 24 VDC
- Two inputs
- Dimensions (WxHxD): 122x208x42 mm
- Weight: 330 g (without batteries)

Compatibility:
- Secvest 2WAY
- Terxon SX / Terxon MX / Terxon LX
- Wireless smoke detector, motion detector, magnetic contact, seismic sensor, glass breakage detector, emergency call transmitter

Optional accessories:
Backup battery (FU3821), Secvest switching power supply unit (FU3822), surface mount power supply (TV8371)

Article number	FU8210	FU3821	FU3822	TV8371

Secvest 2WAY „basic kit“

The Secvest 2WAY basic kit is an ideal entry-level set into the world of high-end wireless alarm technology. It includes central components for effective protection against break-ins and it can be expanded at any time, as needed. The basic set gives you all of the advantages of the Secvest 2WAY: Operating comfort (e.g. thanks to the bi-directional wireless remote control), the latest design and innovative wireless technology.

The delivery kit of the Secvest basic kit includes:

- Secvest 2WAY wireless alarm panel
- 1 wireless motion detector
- 1 wireless opening detector
- 1 bi-directional wireless remote control with a panic function and LEDs for the status display
- 1 proximity chip key

Optional accessories:
FU8020 ISDN module,
FU8010 GSM module,
FU8030 Ethernet module

Article number	FU8001	FU8007
Languages	German, Dutch, French	English, Danish, Italian

Secvest 2WAY complete kit

The Secvest 2WAY complete kit is the ideal basic equipment for effective protection against burglary and fire. The system can easily be expanded at any time with additional or new components (wireless glass breakage detector, wireless seismic sensor, wireless emergency call transmitter, etc.). The complete kit gives you all of the advantages of the Secvest 2WAY: Operating comfort, the latest design and innovative wireless technology.

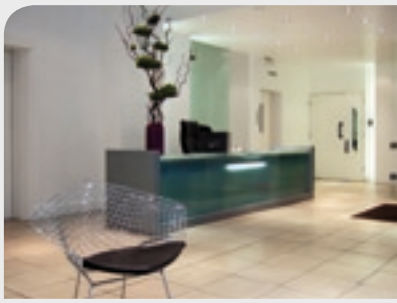
The delivery kit of the Secvest 2WAY complete kit includes:

- Secvest 2WAY wireless alarm panel
- 2 wireless motion detectors
- 1 wireless opening detector
- 1 wireless smoke detector
- bi-directional wireless remote control with a panic function and status display
- 1 proximity chip key

Article number	FU8002	FU8008
Languages	German, Dutch, French	English, Danish, Italian

Individual entry into the world of security

More individual than any other system: The attractively priced kits allow even the most diverse properties to be secured. Thanks to four independent partitions, four parties can use one Secvest 2WAY. Depending on their requirements, you will get „security made to measure.“



Rental apartments

Single-family and multi-family homes

Stores

Office buildings

Terxon Hybrid Alarm Systems

Advanced hybrid technology combines the advantages of wired alarms and 2-way wireless in three unique systems form S to L and guarantees limitless security with first-rate operating convenience!

Terxon SX alarm panel

The ideal entry-level wired alarm solution: The Terxon SX is the right alarm panel for private homes and small commercial properties. Ideal for renovated buildings or existing cable ducts.

Terxon MX hybrid alarm panels

Whether in a private home or a building complex - with up to 32 alarm zones, the Terxon MX gives you extensive options for a high-quality alarm system. In addition to wired detectors, you can integrate the wireless detectors of the Secvest 2WAY and expand the system into a hybrid system without any effort.

Terxon LX hybrid alarm panel

The Terxon LX is the high-performance alarm panel for commercial areas and large building complexes. With 264 alarm zones and 128 keypads, you can implement seamless, all-round protection even for large properties - ideal for your project business! In addition to wired detectors, you can also easily integrate all of the wireless detectors of the Secvest 2WAY.

	Terxon SX	Terxon MX	Terxon LX
Alarm zones „on board“	8 zones	8 zones	8 zones
Expandable	no	yes, expandable to up to 32 zones (wired or wireless)	yes, expandable to up to 264 zones (wired or wireless)
Switching outputs	3 transistors max. 500mA and an 8x50mA transistor or optional 8x1A via a relay board	2 relays max. 1A, 1 transistor max. 500mA, and an 8x50mA transistor or optional 8x1A via a relay board	23 „on board“, expandable to 93
Zone completion	Normally closed (NC) or double end of line (DEOL) with individual analysis of alarm and tamper zone	Normally closed (NC) or double end of line (DEOL) with individual analysis of alarm and tamper zone	Current principle (NC or NO) or double end of line (DEOL) with individual analysis of alarm and tamper zone
Tamper zones	two; one for the sounder and one for the detectors	two; one for the sounder and one for the detectors	nine, one for the sounder and one for each zone (individual analysis)
Users	up to 16	up to 16	up to 99
Keypads	up to 4	up to 4	up to 128
Chip key on keypads	yes	yes	yes
Partitions	1 main partition and 3 sub-partitions	1 main partition and 3 sub-partition or 4 equal partitions	8 partitions
Event memory	250	250	2000
Integrated dialer	----------	with monitoring station protocol	with monitoring station protocol
Interfaces for PC configuration	----------	RS-232	USB and RS-232
Certification	EN, Incert, NCP, VSÖ, F&P	EN, Incert, NCP, VSÖ, F&P	----------
Integrated power supply unit	230 V AC /12 V DC 1 A	230 V AC /12 V DC 1.5 A	230 V AC /12 V DC 1.5 A
Dimensions (WxHxD) in mm	Panel 235x235x85 mm, keypad 113x90x23 mm	Panel 390x310x91 mm, Compact panel 235x235x85 mm, keypad 113x90x23 mm	Panel 384x312x90 mm, keypad 113x90x23 mm
Application areas	Private households, doctor‘s practices, law firms	Private property, commercial objects, production sites	Industry, hotels, office buildings, commercial complexes
Product in catalogue starting on	page 130	page 132	page 136

Arming made to order

Depending on the situation and what your wants or needs are, you have three convenient ways to arm/disarm the Terxon.

One option is to activate the system via the LCD keypad. These keypads can be installed at several entrances and in protected outside areas (IP54), so that it remains possible to access the house in several different ways. The add-on keypad can also be used in multi-story buildings.

Another easy and secure method is to arm/disarm using the key-switch, which can also be installed in the outside area.

The quickest and easiest way to arm or disarm the Terxon is to use the proximity chip key. Simply hold the key in front of the keypad (no need to make contact).

Terxon SX + Terxon 2WAY module = bi-directional wireless for wired alarms

With the new Terxon 2WAY module, you can integrate all of the bi-directional wireless components of the Secvest 2WAY into the Terxon. This gives you countless new possibilities. You can arm and disarm the Terxon SX at the push of a button via the bi-directional wireless remote control of the Secvest 2WAY, for example. Four integrated LEDs always show you the current status of the system.
The following components of the Secvest 2WAY can be integrated via the Terxon 2WAY module: Wireless remote control, wireless keypad, wireless key-switch, Secvest key, wireless outside and inside sounders (seepage 140).

Terxon SX alarm panel

NEW

From private homes to commercial properties: The Terxon SX from ABUS Security-Center provides the right level of security. Eight freely programmable zones are at your disposal for installing wired detectors. The ninth zone is pre-configured as an tamper zone. Programming and operating are conveniently done via the remote LCD keypad (in delivery kit). In the event of an alarm, a switching output for the sounder and one for the flashing light can be activated. Nine additional transistor outputs are available on the Terxon SX board. You can use these to control other external components (e.g.: a speech dialer). You have also several options for operating the Terxon SX: Via a PIN code and proximity chip key on the keypad, or by simply turning the key in the key-switch. In combination with the Terxon 2WAY module, you can even integrate wireless detectors and control components.

- Normally closed (NC) or double end of line (DEOL)
- 3 transistor outputs max. 500 mA, 8 transistor outputs max. 50 mA
- Integrated power supply unit 230VAC/12VDC (1A)
- Optional pluggable relay module (AZ4140)
- Incl. keypad with LCD display, buzzer and 11 languages to choose from
- Intended for backup battery 12 V/7 Ah (not included in delivery kit)
- User code and installer code freely selectable
- Up to 16 different users
- 4-wire BUS-connection for up to 4 LCD keypads
- 250x event memory with time stamp
- Certifications: NCP, VSÖ, Incert, F&P
- Dimensions panel (WxHxD): 235x235x85 mm, keypad (WxHxD): 113x90x23 mm
- Optional accessories:
- VdS battery 7 Ah

Article number	AZ4000

Relay board

The relay board is an expansion module for the Terxon SX and the Terxon MX. Eight high-performance relay switching outputs are available to the alarm system (max. 1 A / 30 VDC).

- 8 relay outputs
- Contacts NC/NO (max. 1 A / 30 VDC)
- For Terxon SX and Terxon MX
- Increases the switching output of the eight additional transistor outputs from 8 x 50 mA to 8 x 1 A

Article number	AZ4140

Additional LCD keypad

Installed at each entrance, it allows you to quickly operate your alarm system with a PIN code or proximity chip key (max. of four keypads).

- Can also be used in outdoor areas (IP54)
- Certifications: VSÖ, Incert, NCP, F&P
- Dimensions (WxHxD): 113x90x23 mm

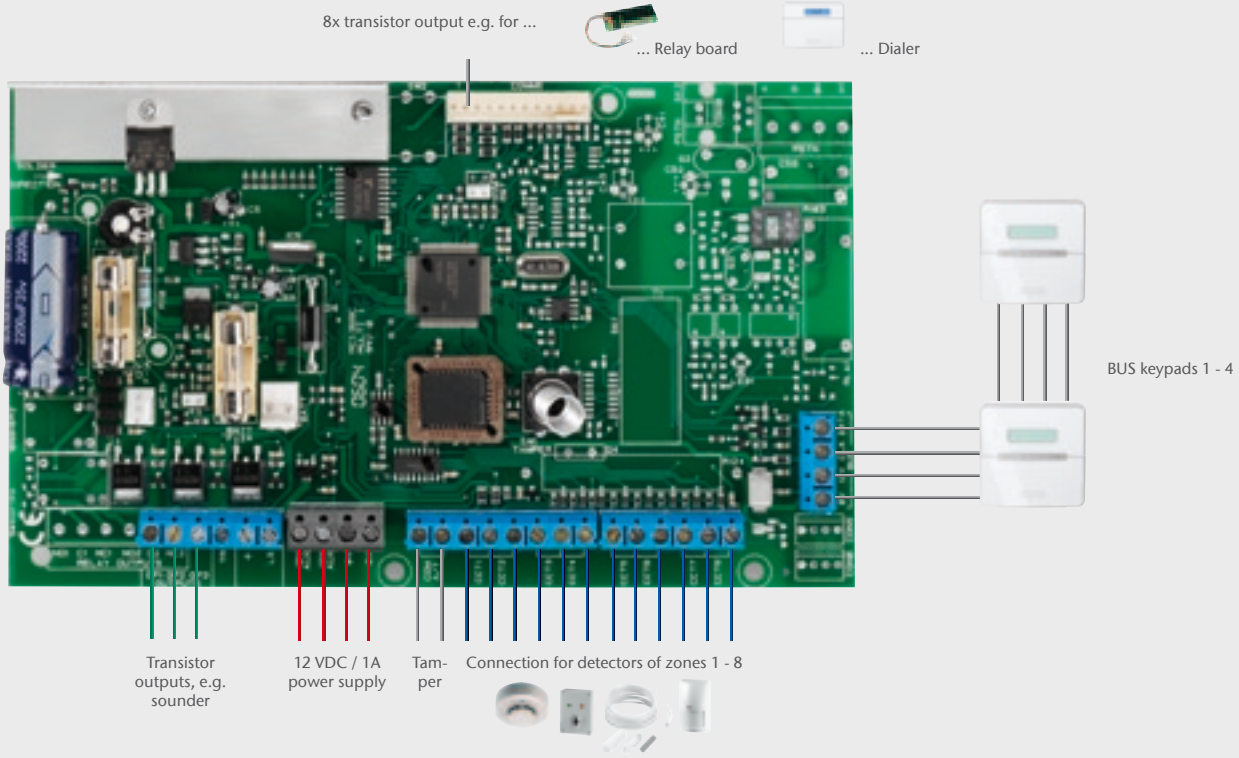
Article number	AZ4110

Proximity chip key

You can operate your alarm system even more conveniently with the chip key. Simply hold it in front of the keypad and carry out the desired functions. The chip key makes entering a code superfluous. One chip key can be used for each user (max. 16).

Article number	AZ5501

Technical information - connection options on the board


8x transistor output e.g. for ...
... Relay board
... Dialer
BUS keypads 1 - 4
Transistor outputs, e.g. sounder
12 VDC / 1A power supply
Tam-per
Connection for detectors of zones 1 - 8

Terxon MX hybrid alarm panel / Terxon MX hybrid compact alarm panel

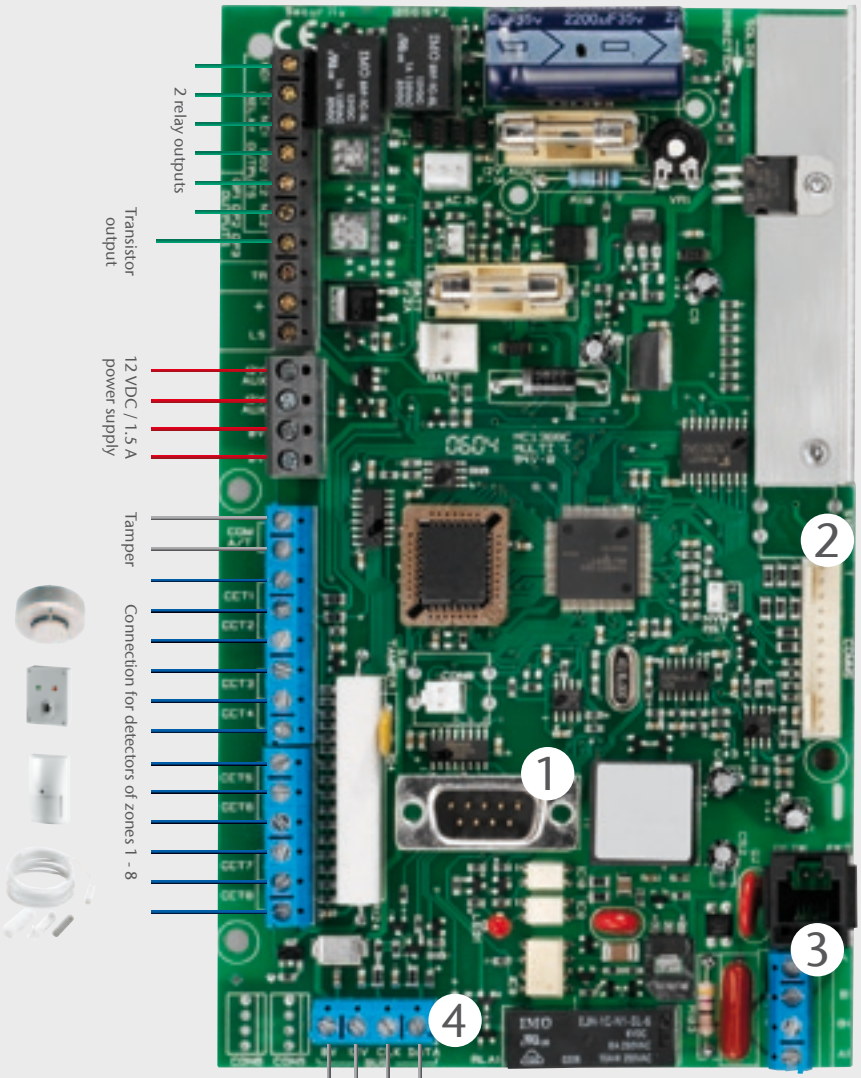
The complex securing of medium-sized and larger properties requires a comprehensive and flexible system that can be expanded at any time. The Terxon MX hybrid system, which can integrate both wired detectors and wireless components, meets this challenge. The system has four partitions and nine alarm zones (incl. tamper zone), which you can expand to 32 alarm zones. The Terxon MX hybrid compact alarm panel with a significantly smaller housing (AZ4150) is a space-saving alternative. The piezo or process controller Terxon MX alarm panel, which was configured as a hybrid system is setting new standards in the high-end alarm system segment with its flexibility and expandability. Change is a constant part of our environment. Not having to be rigidly configured is a convenience which the Terxon MX affords you. It is possible to add or connect a wide variety of detectors at any time. This allows you to quickly react to changing requirements. The comprehensive functions of the alarm panel also satisfy the highest requirements.

- 8 alarm zones for NC contacts or double end of line DEOL
- Expandable to 32 zones (via 3 expansion modules)
- 4-wire BUS connection for up to 4 LCD keypads and 3 zone expansions (wireless/wired)
- Can be configured as an individual system or a partitioned system
- Integrated telephone dialer with monitoring station protocol
- Hybrid capability: Possible to connect Secvest 2WAY wireless detectors
- PC directly programmable (RS-232) or remotely programmable via modem (AZ5105)
- Incl. keypad with LCD text display and 11 languages to choose from
- User code and installer code freely selectable
- 2 relay outputs (max. 24 VDC / 1 A)
- 1 transistor alarm output (max.12 VDC / 500 mA)
- 8 additional transistor output (max. 12 VDC / 50 mA) or optional, pluggable relay module
- Intended for backup battery 12 V/7 Ah (not included in delivery kit)
- 250x event memory with plain text and time
- Integrated buzzer for alarm
- Integrated power supply unit 230 VAC / 12 VDC (1.5 mA)
- Certifications: VSÖ, Incert, NCP, F&P
- Dimensions keypad (WxHxD): 113x90x23 mm
- Terxon MX also available in a small housing (AZ4150)
- Dimensions panel (WxHxD): AZ4100: 390x310x91 mm AZ4150: 235x235x85 mm

Article number	AZ4100	AZ4150
Version	Hybrid alarm panel	Hybrid compact alarm panel
Dimensions panel in mm	310x390x91	235x235x85

Technical information - connection options on the board

1 **COM port:**
With this port, you can connect the Terxon MX to a computer. You can program the Terxon MX via the installation software, or dial into the system remotely via an analog modem.



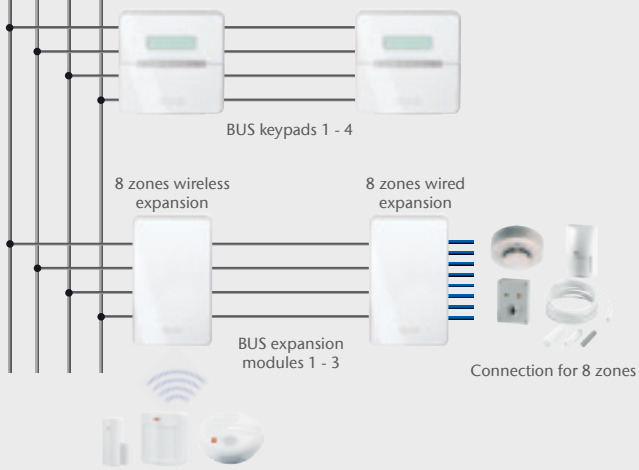
2

8x transistor output:
The switching capacity is 50 mA per output. Thus, they are ideally suited for connecting Terxon add-on components, such as speech dialers, a GSM interface or 2WAY module. If needed, this switching capacity can be increased to 1A per output using the relay board. Then other external components such as outside lighting, garage doors, etc. can be controlled via the Terxon MX.

3

PSTN port:
Connect the Terxon MX to a telephone line. Thus, in the event of an alarm, you can transmit a monitoring station protocol or you can configure the panel via remote software.

4 **4-wire expansion BUS:**
You can connect up to four keypads to the Terxon MX via the 4-wire BUS. You can also connect up to three 8-zone expansion modules to the BUS (wired or wireless expansion).



Programming the Terxon MX

You have two options for programming the Terxon MX: Via the keypad or via software.

Keypad

All of the programming steps for the Terxon MX are performed here in the installation menu. A numeric code is required to prevent unauthorized access. Thanks to numeric codes that are listed in the installation instructions, you can then select and change the individual programming items. The changed settings become valid after you exit the programming menu.

Software available for download

Another convenient option for programming the system is via the installation software. You can find this on the ABUS Security-Center homepage (www. abus-sc.com). You can find all of the setting options here at the push of a button and you can set up the system using a mouse and control panel.

Josef Uhlmann, Product Marketing

"Especially with new and renovated buildings, a wired alarm is the ideal solution. The minimal maintenance overhead and excellent expandability of these systems ensure optimal investment security. The Terxon MX is justifiably certified throughout Europe because of its high level of quality."

Programming cable

The programming cable is used to conveniently set the system via the PC. The 3-meter long cable is available for a USB port (AZ5107) and serial port (AZ5106).

- Free software available for download
- AZ5107 USB to RS-232 adapter (incl. driver CD) / AZ5106 serial (USB serial adapter)
- AZ5107 only functions in combination with AZ5106
- Length: 3 meters

Article number	AZ5106	AZ5107

Additional LCD keypad

Installed at an entrance, the LCD keypad allows you to quickly operate your alarm panel via a PIN code or proximity chip key. Up to four keypads can be integrated into the alarm system. Installed in different parts of your building or in protected outside areas (IP54), these keypads provide added convenience. With its new design, this LCD keypad fits in visually with all of the wireless components of the Secvest 2WAY.

- For programming the alarm panel
- For operating your alarm panel with PIN code or proximity chip-key
- Integrated proximity chip-key reader
- Connection: 4-wire Bus
- Backlit LCD display, 2-line per 16 locations
- Integrated proximity reader
- Integrated buzzer
- Protection class: IP54
- Power supply 12 VDC, supplied by the panel via the BUS
- Amperage: 30 mA, 70 mA with illumination
- Weight: 200 g
- Certifications: VSÖ, Incert, NCP, F&P
- Dimensions (WxHxD): 90x113x23 mm

Article number	AZ4110

Proximity chip key

Simply hold it in front of the keypad and perform the desired functions. The proximity chip key makes entering a code superfluous.

Article number	AZ5501

Relay board

The relay board is an expansion module for the Terxon SX and the Terxon MX. The alarm panel has eight high-performance 1A relay switching outputs at its disposal.

- 8 relay outputs
- Increases the switching capacity of the 8 additional transistor outputs from 8 x 50mA to 8 x 1A
- Contacts NC/NO (max. 1 A/30 VDC)

Article number	AZ4140

8 zones wired expansion

The 8-zone wired expansion set (AZ4130) is an expansion module for the Terxon MX. Via this module, you can expand your alarm system by up to eight wired alarm zones. The 8-zone wired expansion set is connected to the main board of the Terxon MX via BUS wiring. The additional alarm zones are freely programmable and monitored against tamper. The type of wiring - NC or DEOL - is up to you, but it must be the same for all zones. You can address the zones of the expansion module via a jumper on the board.

- For expanding the Terxon MX to up to 32 zones
- 8 freely programmable zones
- Monitored against tamper
- Easy connection with 4-wire BUS
- Voltage/power: 12 VDC / max. 30 mA
- Certifications: VSÖ, Incert, NCP, F&P
- Dimensions (WxHxD): 128x183x35 mm

Article number	AZ4130

8 zones wireless expansion

The 8-zone wireless expansion module (AZ4120) is an expansion module for the Terxon MX. With this module, you can integrated up to eight Secvest 2WAY wireless detectors into your alarm system, tuning it into a hybrid system. Communication between the wireless expansion module and the individual detectors takes place on 868.6625 MHz, a frequency that is reserved exclusively for the security industry. The latest FM wireless technology with millions of codes and duplex antenna technology guarantees reliable transmission of signals and the quick and easy installation of the individual wireless detectors.

- For expanding the Terxon MX to up to 32 zones
- 8 freely programmable zones
- Easy connection with 4-wire BUS
- Monitored against tamper
- Display - 2x7 segment display
- Frequency 868.6625 MHz
- Duplex antenna technology
- Bandwidth 20 kHz
- Range outdoors approx. 200 m
- Range indoors 30 m, depending on the construction materials
- Operating voltage: 12 V current consumption: max. 55 mA
- Weight: 342 g
- Certifications: VSÖ, Incert, NCP, F&P
- Dimensions (WxHxD): 128x183x35 mm

Article number	AZ4120

Compatible detectors for Terxon MX wireless expansion

Wireless window lock FTS 96 E
▶ Page 118

Wireless opening detector
▶ Page 119

Wireless vibration detector, - wireless glass break detector
▶ Page 119

Wireless motion detector
Pet-proof wireless motion detector
▶ Page 120

Wireless water detector, wireless smoke detector
▶ Page 120

Wireless panic transmitter
▶ Page 120

Terxon LX hybrid alarm panel

NEW

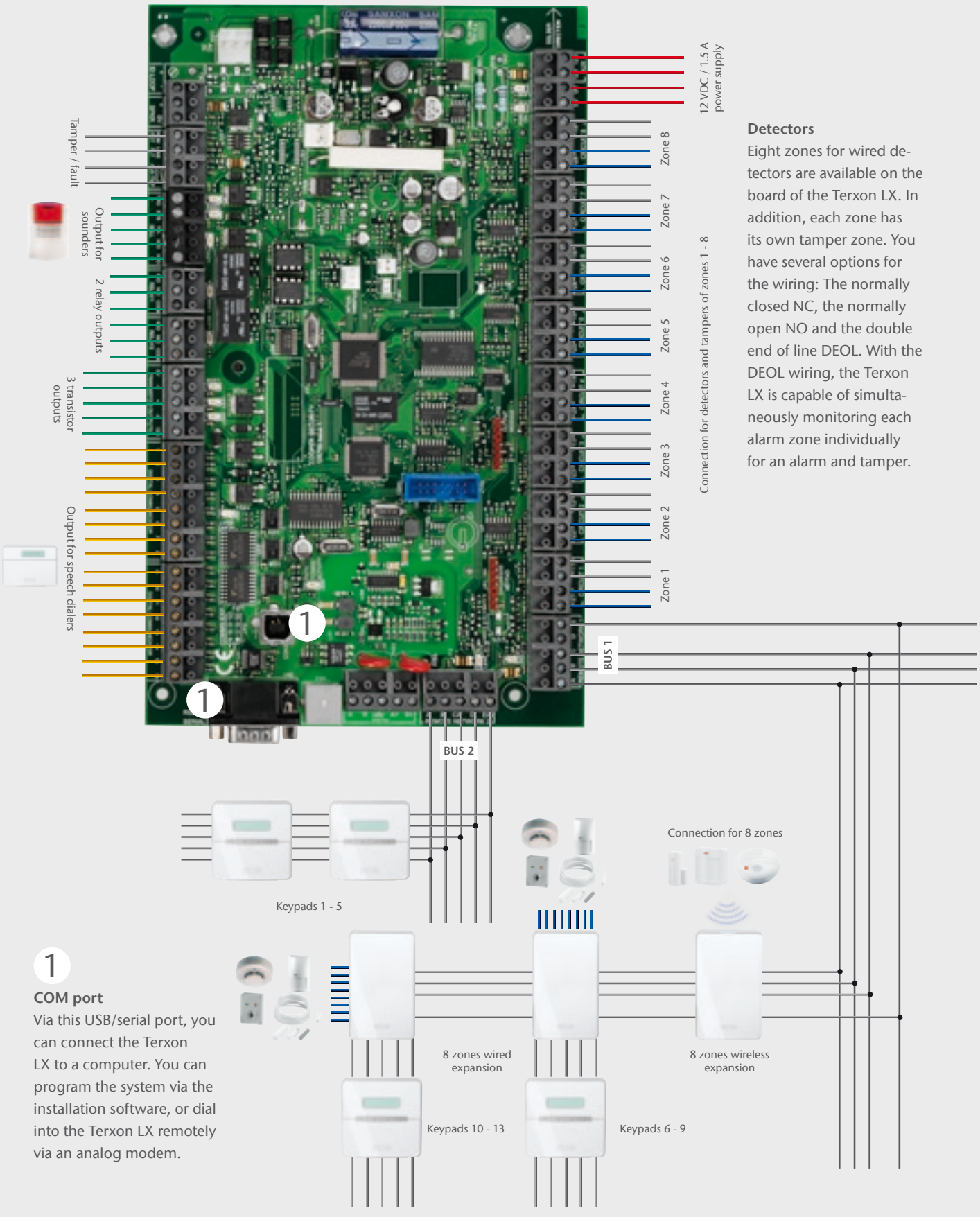
Absolutely flexible and intelligent technology: The Terxon LX alarm panel is the alarm panel for commercial areas and large building complexes. In addition to wired detectors, you can also integrate all of the wireless detectors of the Secvest 2 WAY and expand the system to make it a hybrid system. Eight freely programmable zones are available on the main board of the Terxon Lx for wired detectors. Each zone has its own tamper zone. Via the bus wiring, up to 128 keypads and 32 expansion modules can be connected - eight wireless zones or eight wired zones for each. In this way, you can expand the Terxon LX to 264 zones at any time. The system can also be divided into eight partitions. The 23 switching outputs on the main board can be expanded to a total of 93 via the outputs of the expansion modules of the keypads. Depending on what you want, you can automatically control the external devices (e.g.: the outside lighting), which you have connected via these outputs (according to a programmed schedule). You can also define a schedule for arming and disarming the system. In all, you can create 99 users in the system with twelve different authorization levels. An LCD keypad is included in the delivery kit, which is used to program, arm or disarm the system. The system can also be programmed via PC (USB or RS-232) and installation software. Another selling point of the software is the real-time surveillance capability. This gives you a quick overview of the current status of the entire system via a PC. At a glance, you can see the wireless reception of the remote controls and wireless detectors, the status of the partitions and much more. With monitoring station protocoll, which is integrated in the Terxon LX, an monitoring station is notified in the event of an alarm. In this way, the Terxon LX gives its operator seamless, all-round protection.

- 8 alarm zones for NO and NC contacts or double end of line DEOL
- Expandable to up to 264 alarm zones
- Zone completion NC or DEOL can be selected for each zone
- The type of zone and the zone's properties can be freely programmed for each zone
- Hybrid system: It is possible to integrate wireless components of the Secvest 2WAY
- Up to 128 keypads can be connected
- 23 switching outputs on the main board: sirene/strobe + 3x transistors + 2x relays + 16x communication outputs
- Expandable to up to 93 switching outputs
- Integrated dialer
- 8 separate partitions
- Schedule for outputs
- Schedule for automatic arming/ disarming
- Event memory: up to 2000 events with date and time
- Programming via keypad, software and modem possible
- Up to 99 users and/or 99 chip keys
- 12 different authorization levels for the users
- Code length: 4 and 6 digits are possible
- Emergency backup battery 12V/7Ah or 12V/17Ah
- Weight: 5.0 kg
- Dimensions (H x W x D): 312x384x90 mm
- Integrated power supply unit

Optional accessories:
Backup battery 7 Ah (BT2070) / 17 Ah (BT2180), expansions

Article number	AZ4200

Technical information - connection options on the board



Detectors
Eight zones for wired detectors are available on the board of the Terxon LX. In addition, each zone has its own tamper zone. You have several options for the wiring: The normally closed NC, the normally open NO and the double end of line DEOL. With the DEOL wiring, the Terxon LX is capable of simultaneously monitoring each alarm zone individually for an alarm and tamper.

1

COM port
Via this USB/serial port, you can connect the Terxon LX to a computer. You can program the system via the installation software, or dial into the Terxon LX remotely via an analog modem.

Programming Terxon LX

The easiest and quickest way to program the Terxon LX is with the installation software. Simply install the software, connect the Terxon LX to a PC via USB and you can access the system. This allows you to conveniently program and change the settings for zones, partitions, outputs, system settings and communication settings

Zones

Here, you can see the zone number, name, type, properties and zone resistor of all the existing detectors at a glance. You can also see which detector is located in which partition

Partitions

Here, you can define the output mode, alarm behavior, duration of the sounder and assign the individual add-on modules to specific partitions.

Outputs

On this user interface, you can see at a glance which output you have programmed. You can also define the schedule here for activating and deactivating the outputs

System settings

System settings are changed in this menu. In this menu, there is a time scheduler, which you can use to automatically activate and deactivate the Terxon LX.

Proximity chip key

Simply hold it in front of the keypad of the Terxon and perform the desired functions. The proximity chip key makes entering a code superfluous.

Article number	AZ5501

Additional LCD keypad

Installed indoors or in an protected outside area (IP54), the LCD keypad allows you to quickly operate the Terxon LX via a PIN code or proximity chip key. The LCD keypads are connected to the Terxon LX via 5-wire bus wiring. Up to 128 keypads can be integrated into the alarm system.

- For programming the alarm panel
- For operating your alarm system with PIN code or proximity chip-key
- Integrated proximity chip-key reader
- Connection: 5-wire Bus
- Backlit LCD display, 2-line per 16 locations
- Integrated proximity reader
- Protection class: IP54
- Power supply: 12 VDC, supplied by the panel via the BUS
- Amperage 30 mA, 70 mA with illumination
- Weight 200 g
- Dimensions (WxHxD): 90x113x23 mm

Article number	AZ4210

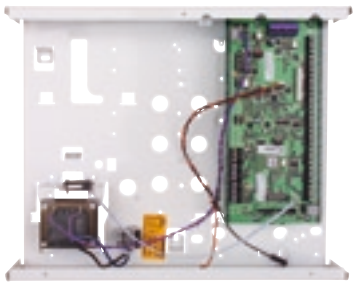
Programming cable

The practical USB cable is used for conveniently programming the Terxon LX via software on the PC.

- Programming the entire system and all of the parameters is possible
- Easy to connect to a PC or laptop via USB
- Installation software can be downloaded at www.abus-sc.com

Article number	FU5009

8 zones wired expansion with PSU



Via this module, you can expand your Terxon LX by eight wired zones. You can also supply other components of the alarm system with power via the integrated 1.5 A power supply unit of the expansion module thereby also increasing the range of the power supply.

- 8-zone wired expansion module with additional 1.5 A power supply unit (PSU)
- For stabilizing your Terxon LX system
- Backup battery 7 Ah / 17Ah
- Monitoring of system status and tamper
- Bus monitoring of the expansion modules and zones with exact fault detection
- Measuring of system voltage, charging current, battery voltage, etc.
- Dimensions (WxHxD): 382x310x95 mm

Article number	AZ4250

8 zones wired expansion

Via this module, you can expand your alarm system by up to eight wired alarm zones. The 8-zone wired expansion set is connected to the main board of the Terxon LX via BUS wiring. The additional alarm zones are freely programmable and monitored against tamper. You can address the zones of the expansion module via a jumper on the board. In addition to the capability of connecting eight detectors, you can also control two outputs via this expansion module. One positive and one negative transistor, each with 0.5 A switching capacity, are at your disposal.

- 8 freely programmable zones
- For expanding the Terxon LX to 264 zones
- Incl. 2 transistor switching outputs
- Monitored against tamper
- Easy connection with 4-wire BUS
- Voltage/power: 12 VDC / max. 30 m
- Dimensions (WxHxD): 183x128x35 mm

Article number	AZ4230

8 zone wireless expansion

Via the 8-zone wireless expansion module, you can read-in up to eight Secvest wireless detectors and eight wireless remote controls into your alarm system. This allows you to expand the Terxon LX into a hybrid system. Up to 32 expansion modules can be integrated into the system. Communication between the wireless expansion module and the individual detectors takes place on 868.6625 MHz, a frequency that is reserved exclusively for the security industry. The latest FM wireless technology with millions of codes and duplex antenna technology guarantees reliable transmission of signals and the quick and easy installation of the individual wireless detectors.

- For expanding the Terxon LX to 264 zones
- 8 freely programmable zones and 8 wireless remote controls can be read-in
- Easy connection with 4-wire BUS
- Anti-tamper monitoring
- Display - 2x7 segment display
- Frequency: 868.6625 Mhz
- Duplex antenna technology
- Range outdoors approx. 200 m
- Range indoors 30 m, depending on the construction materials
- Dimensions (WxHxD): 183x128x35 mm

Article number	AZ4220

Compatible detectors for Terxon LX wireless expansion

Wireless window lock FTS 96 E
▶ Page 118

Wireless opening detector
▶ Page 119

Wireless vibration detector, - wireless glass break detector
▶ Page 119

Wireless motion detector
Pet-proof wireless motion detector
▶ Page 120

Wireless water detector, wireless smoke detector
▶ Page 120

Wireless panic transmitter
▶ Page 120

Terxon 2WAY module

The Terxon 2WAY module is a bi-directional wireless expansion module for wired alarm systems. It allows the combination of wired alarm panels from any manufacturer with bi-directional 2WAY system components (sounders and arming devices of the Secvest 2WAY).
Because the Terxon 2WAY module communicates via alarm inputs and switching outputs, it can be integrated not just into the Terxon series, but also in nearly every wired alarm system.
The following components of the Secvest 2WAY can be integrated via the Terxon 2WAY module: Wireless remote control, wireless keypad, wireless key-switch, the Secvest key, wireless outside and inside sounders.

- Integration of all of the bi-directional Secvest 2WAY wireless components into wired alarm systems
- 6 switching outputs, for transmitting commands from the components
- 10 inputs, for the forwarding of different status information of the alarm panel
- Monitored against tamper
- Frequency: 868.6625 MHz
- Duplex antenna technology
- Bandwidth: 20 kHz
- Display: 10 LEDs
- Range outdoors approx. 200 m
- Range indoors: 30 m, depending on the construction materials
- Operating voltage: 12 VDC
- Amperage: max. 55 mA
- Compatible with almost all wired alarm systems
- Weight: 342 g
- Dimensions (WxHxD): 128x183x35 mm

Article number	AZ4290

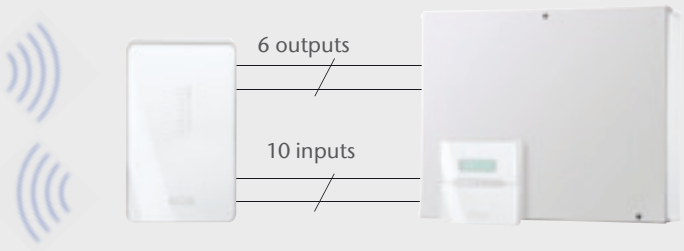
Integrate bi-directional wireless components into your wired alarm system

Do you want to integrate a wireless outside sounder into your Terxon system? Or perhaps combine a bi-directional remote control with your existing alarm system? The Terxon 2WAY module is the right solution for this. With it, you can:

1. Receive commands from bi-directional Secvest 2WAY components wireless and pass them to the Terxon by wire.

2. Receive status information from the panel and send it wireless to the bi-directional components of the Secvest 2WAY

Accessories for Terxon 2WAY module



Terxon 2WAY module

Wired panel (e.g. Terxon)

Send commands from other components to the Terxon
You have six switching outputs at your disposal on the board of the Terxon 2WAY wireless module. They are connected to the corresponding alarm inputs of the Terxon alarm panel.

Send information from the Terxon to the wireless components.
You can make the following setting via the programming menu of the Terxon: As soon as something changes in the status of the alarm panel, the Terxon activates an output. This output is connected to one of the ten switching inputs of the Terxon 2WAY wireless module.

In this way, the 2WAY module receives all of the information about the current status of the system.

Uni-directional wireless components such as the wireless detectors are also integrated into the system via the wireless expansion modules.

Wireless remote control

With the bi-directional Secvest 2WAY wireless remote control, you can conveniently arm and disarm the alarm system remotely and get confirmation of the system status via four integrated LEDs.

- For elegant and convenient operation of the system
- Direct acknowledgement of a change in the status
- Freely programmable fourth key
- Manual panic alarm possible

Article number	FU8100

Wireless keypad

With the bi-directional wireless keypad, you can operate the alarm panel from anywhere and see the current status of the panel. Due to the IP54 protection class, you can use the wireless keypad in sheltered outside areas.

- Integrated proximity chip-key reader (prerequisite: 12 V power supply)
- Free programming of the keys (and activating the outputs) possible
- Protection class: IP54

Article number	FU8110

Wireless cylinder

The Secvest Key 2WAY bi-directional wireless cylinder is the first wireless cylinder, which automatically disarms the alarm system when the door is unlocked and arms it when the door is locked. An acoustic signal reports the current status of the alarm system. The wireless cylinder fits in all doors with a Euro profile. It can be integrated in all ABUS lock systems and also in cylinder systems from other manufacturers. The Secvest Key wireless lock cylinder is suitable for cylinder systems from these manufacturers: PFAFFENHAIN · KESO · KABA · WILKA · EVVA · CES · IKON (except for P profile)

- Convenient operation of the alarm system
- Easy one-button operation
- Can be integrated into other lock systems
- Available in several designs to fit any door

You can obtain additional information about the Secvest Key from your personal customer support representative or on the Internet at www.abus-sc.com

Article number	FU5991	FU5992	FU5993	FU5994	FU5995	FU5996	FU5997
Key adapter for:	KESO	Pfaffenhain	IKON	KABA	WILKA	EVVA	CES

Wireless outdoor sounder

In the event of an alarm, the wireless outdoor sounder generates a loud signal with 105 dB of acoustic pressure. The duration of the alarm - three minutes or 15 minutes - can be controlled via a jumper. In addition to the acoustic signal, there is also an signal of a red LED strip. The flash light and sounder are controlled separately. This means that the flash light can continue to flash, while the sounder ends after a predetermined period of time.

- Acoustic pressure: 105 dB(A) at 1 m
- visual alarm - strip of flashing LEDs (top or bottom - optional)
- Flash frequency 1 Hz
- Range up to 100 m (depending on the ambient conditions)
- Dimensions (WxHxD): 300x210x60 mm

Article number	FU8220

Wireless indoor siren

This siren supports the outside sounder of the alarm system in the event of an alarm with a signal with 90 dB of acoustic pressure. The wireless indoor siren can be powered by a battery or a power supply unit. When batteries are used, the lifetime is approx. 2 years. A weak battery is indicated via a red LED on the sounder.

- Acoustic pressure 90 dB
- For providing acoustic support to the wireless outdoor sounder or an alarm for the residents
- Power is supplied via the battery or power supply unit
- Easy installation
- Dimensions (WxHxD): 315x200x50 mm

Article number	FU8230

Alarm kits for beginners and professionals

The Terxon SX alarm kits are the ideal entry-level kits into the world of wired alarm technology. They contain all of the central components for effective and full protection.

The detectors can be swapped as needed and the system can be expanded at any time. The core of the alarm kit is the Terxon SX, the alarm panel from ABUS Security-Center.

The Terxon SX alarm kit is available in three variants: Terxon SX Ecoline alarm kit with sounder (AZ4299) and Terxon SX Profiline alarm kit with sounder (AZ4300). Another variant is the Terxon SX Profiline alarm kit with a dialer (AZ4350). Have a look to the table to see which components are included, in what quantity, in the respective Terxon SX alarm kit.

Item no.	Product description	AZ4299	AZ4300	AZ4350
AZ4000	Terxon SX alarm panel + LCD keypad and proximity key	1x	1x	1x
BT2070	VdS battery7 Ah	1x	1x	1x
BT2020	VdS battery 2.1 Ah	1x	1x	
AZ6360	50 m alarm cable	1x	1x	1x
VT4000W	Terminal distributor		5x	5x
VT5000W	Screw terminal distributor	2x		
FU7350W	Opening detectors	2x	5x	5x
BW8000	Motion detectors	2x		
BW8010	Motion detector VdS		2x	2x
SG1800	Outdoor siren	1x	1x	
SG1250	Indoor sounder			1x
SE1000	Key switches		1x	1x
ME1050	Half-cylinder		1x	1x
AZ6301	PSTN dialer			1x

Florian Lasch, Key Account Manager

„The alarm kits are the ideal entry-level kits into the world of wired alarm technology. Whether it is Ecoline or Profiline: The kits contain everything that is needed for effective protection. With a battery, cable and distributor, the necessary accessories are also supplied with power."

Terxon SX Ecoline alarm kit with sounder

The Terxon SX Ecoline alarm kit is the ideal entry-level kit into the world of wired alarm technology. The following components, detectors and accessories are included in the delivery kit:

- The Terxon SX alarm panel with LCD keypad and chip key (AZ4000). The system can be programmed via the keypad and armed/disarmed via the code or chip key
- 7 Ah backup battery in the event of a power failure (BT2070)
- 50-meter of alarm cable for wiring the keypad, detectors and sounders (AZ6360)
- Two flush-mounted screw distributors with tamper contact (VT5000W)
- Two PIR motion detectors (BW8000)
- Two 2-wire NC opening detectors for doors and windows (FU7350W)
- Outdoor sounder Profiline (SG1800)
- 2 Ah battery for supplying emergency power of the sounder (BT2020)

You can find detailed information about the Terxon SX and the supplied components in the documentation for the individual products.

Article number	AZ4299

Terxon SX Profiline alarm kit with sounder

The Terxon SX Profiline alarm kit provides you with the ideal basic equipment for effective protection against a break-in. The following components, detectors and accessories are included in the delivery kit:

- The Terxon SX alarm panel with LCD keypad and chip key (AZ4000). The system can be programmed via the keypad and armed/disarmed via code or chip key
- 7 Ah backup battery in the event of a power failure (BT2070)
- 50-meter of alarm cable for wiring the keypad, detectors and sounder (AZ6360)
- Five flush-mounted terminal distributors with five connections and tamper contact (VT4000W)
- Two VdS certified PIR motion detectors (BW8010)
- Five 2-wire NC opening detectors for doors and windows (FU7350W)
- Key-switches for conveniently arming/disarming the system (SE1000)
- A suitable half-cylinder for the key-switch (ME1050)
- Outdoor sounder Profiline (SG1800)
- 2 Ah battery for supplying emergency power to the outdoor sounder (BT2020)

You can find detailed information about the Terxon SX and the supplied components in the documentation for the individual products.

Article number	AZ4300

Terxon SX Profiline alarm kit with dialer

The Terxon SX Profiline alarm kit with dialer contains all of the components needed for effective protection. You can send voice messages to up to four telephone numbers. The following components, detectors and accessories are included in the kit:

- The Terxon SX alarm panel with LCD keypad and chip key
- The system is programmed via the keypad and armed/disarmed via the code or chip key (AZ4000)
- Key-switch for conveniently arming/disarming the system (SE1000)
- 7 Ah backup battery in the event of a power failure (BT2070)
- 50-meter of alarm cable for wiring the keypad, detectors and dialer (AZ6360)
- Five flush-mounted terminal distributors with tamper contact (VT4000W)
- Two VdS certified PIR motion detectors (BW8010)
- Five 2-wire NC opening detectors for doors and windows (FU7350W)
- A suitable half-cylinder for the key-switch (ME1050)
- Loud indoor sounder (SG1250)
- A PSTN dialer for speech transmitting voice messages to any telephone number (AZ6301).

You can find detailed information about the Terxon SX and the supplied components in the documentation for the individual products.

Article number	AZ4350

Wired alarm components

A wide diversity of components: For alarm systems that meet the most unique requirements, are extremely vigilant, false alarm-proof and which have an sound that is making itself heard throughout the EU.

PSTN speech dialer

GSM speech dialer

Dialers for any application:

The perfect silent and mobile alarm - via text message, speech message, monitoring station protocol or SMS. Alarm details are sent to predefined receivers and help is quickly organized - whether during a break-in or an emergency. The occupants know what is going on in each case - even if they are not at the scene.

► starting on page 152

Motion detectors

Extremely diverse: The right motion detector for any surroundings

Easily expand any alarm system: With a detector series that always has the right solution! Seven variants of Xevox motion detectors are available, depending on the detection method and the desired reliability of detection. Compatible and flexible: For expanding the Terxon and almost every wired alarm system in the market.

► starting on page 140

Glass breakage detector

Neuralgic points: Well-protected windows and glass doors

The right detection for any situation: Acoustic glass breakage detector (e.g. for glazed facades), passive detectors (can be used without power) or vibration detectors that also detect vibrations outside of the glass (e.g. prying open). With acoustic detectors, the use of a test device guarantees the ultimate in reliability.

► Page 142

Light beams

Invisible light: First-class protection indoors and outdoors

Increased security: Thanks to the extra surveillance of entry-ways, parking spaces or factory bays. By means of an alarm output, the light beams becomes part of an alarm system into which you can also integrate cameras (recording is activated by the light beam).

► starting on page 146

Magnetic contacts

Well-protected against intruders: Gaps and hatches of any size

Seamless outside security - the basis for a secure building. One factor for success is suitable opening detectors. With our multi-faceted variants, you can reliably secure doors, windows, hatches and even garage doors and other metal constructions.

▶ Page 144

Cable, batteries, accessories

Good power connections: Even during attempted tamper

Your alarm system always provides protection, regardless of the weather, status of the power grid or any attempts at tamper. This is ensured by perfect cables, good accessories and high-performance batteries with optimum cycle stability (up to five years of service life in stand-by mode).

▶ starting on page 148

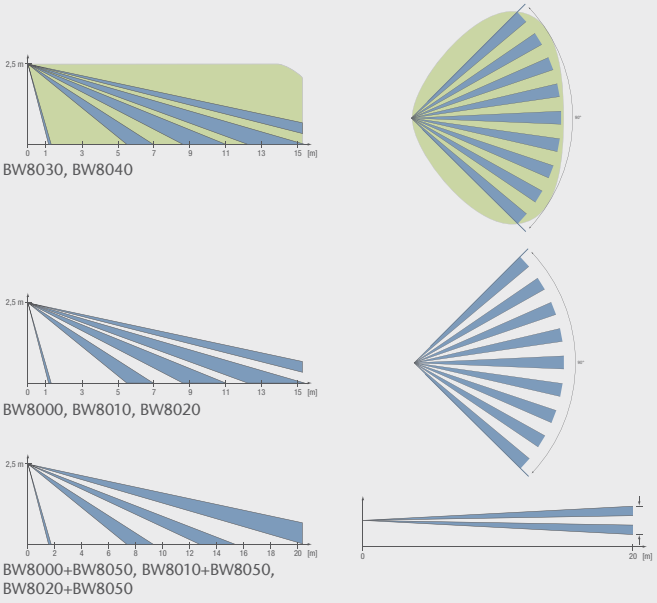
Sounders

Compact alarm system: Flash light and acoustic pressure from its own power source

Immediately scare off the intruder - with an alarm that operates independently of the panel. An integrated 2 Ah battery (accessory item) supplies power to the powerful alarm at all times - even when the cable has been sabotaged or during current peaks, which can be a problem for even the best alarm panel.

▶ starting on page 150

Ranges and angle of beam



You can get the range and type of surveillance of the respective detector from this graphic. While PIR motion detectors sweep the interior in successive strips, the microwave transmitter sends out its signals in all directions. Installed 2.5 m above the floor, the detectors cover an area of up to 15x15 m. With the long range lens, the surveillance range can be expanded to 20 m.

Replacement lens

Long range lens for Xevox detector (Xevox Eco, Xevox Profi VdS, Xevox Duplex VdS).

- Detection range up to 20 m / and 3 m wide
- VdS-B in combination with Profi VdS and Duplex VdS motion detectors

Article number	BW8050

Wall/ceiling mount set

Wall/ceiling mount for Xevox series motion detectors

- Flexible installation options: Wall, ceiling, corner installation
- Set of screws included

Article number	BW8060

Xevox motion detector

The Xevox motion detectors have been specially developed for securing private, commercial and industrial properties. A choice of seven detectors with different detection characteristics allow the widest variety of security requirements to be realized in order to provide security in even the most difficult surrounding conditions with only one series of detectors. In a uniform, great-looking design.

- Real alarm selection RAS
- Alarm memory with first alarm detection and selectable controller (+12 V/0 V), only for VdS detectors
- Detection range: 15x15 m (pet-proof PET detector: 12x12 m)
- WALK test function, even with remote activation depending on the model
- Automatic, temperature-dependent sensitivity adjustment
- White light filter
- Creep zone
- Pulsecount
- Range setting (not with MW)
- Alarm contact: NC (100 mA/24 VDC)
- Tamper switch: NC (100 mA/24 VDC)
- Operating temperature: -10°C to +55°C
- High level of HF interference immunity
- Wall/ceiling mount available as accessory
- VdS class B (except for Eco/Pet)
- Dimensions (WxHxD): 60x106x47 mm

Xevox Eco BW8000
The cost-effective entry-level solution already offers outstanding detection reliability thanks to microprocessor technology and RAS.

Xevox Profi VdS BW8010
The „All-rounder“ wins over customers with its appealing price and sophisticated technology. This makes it suitable for almost any application.

Xevox Duplex VdS BW8020
Security and freedom: Two AND-linked PIR sensors ensure the system is highly false alarm-proof. An alarm is only triggered if both sensors detect a relevant motion.

Xevox Duplex MW VdS BW8030
Passive infrared and microwave technology! Both sensors, which are based on different detection procedures, must reliably detect a motion before an alarm is triggered. You can rule out false alarms thanks to the AND-link of the two technologies

Xevox Triplex MW VdS BW8040
No more false alarms! Two PIR sensors and a microwave sensor in a triplex link make this Xevox detector the most reliable detector of all time.

Xevox Pet BW8070
This detector detects the difference between a human and a pet. A dog weighing up to 30 kg will not trigger the alarm. But people moving around the room will be reliably detected.

Xevox Pet MW BW8080
The pet-proof detector for challenging applications: PIR sensor and microwave in an AND-link. Pets weighing up to 30 kg cannot cause a false alarm. This makes this detector the ideal variant for pet owners who do not want to forgo reliable room surveillance.

Xevox 360°

All-round security with the Xevox motion detector. With a detection range of 360°, this detector has the entire room under surveillance.

- Microprocessor-controlled PIR detector with a 360° detection range
- Detection range (diameter): 13 m and 4 m in height
- WALK test function
- Tamper protection by means of a cover contact
- Top-notch HF-immunity
- Automatic, temperature-dependent sensitivity adjustment
- White light filter
- Pulse counter
- Operating voltage: 9 - 16 VDC / 15 mA
- Dimensions (HxØ): 26x135 mm

Xevox 360° VdS

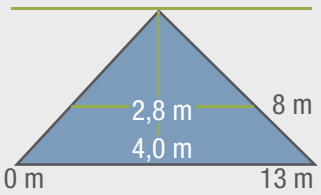
Rely on motion detectors with a large detection range (diameter) and VdS quality. When installed on the ceiling, this detector monitors the entire room.

- Microprocessor-controlled PIR detector with a 360° detection range
- Detection range (diameter): 13 m and 4 m in height
- WALK test function with control input
- Tamper protection by means of a cover contact
- Top-notch HF-immunity
- Automatic, temperature-dependent sensitivity adjustment
- Alarm memory
- White light filter
- Impulse counter
- Operating voltage: 9 - 16 VDC / 9.5 mA
- VdS class B approved
- VSÖ certified
- Dimensions (HxØ): 26x135 mm

Xevox motion detector 360°

These Xevox motion detectors are deal for installing on the ceiling and with a detection range of 360°, they have the entire room under surveillance. In a 4 meter high room, a detection range (diameter) of 13 m is available. The tamper cover contact, the HF interference immunity and a temperature-dependent sensitivity adjustment ensure the ultimate in operational safety and reliability.

Ranges of the 360° detector



Installed at a height of four meters, the Xevox 360° motion detectors monitor a conical space with a diameter of 13 meters at floor level. At a height of 2.8 meters, the diameter of the detected area is still eight meters. This means that this series of detectors can also monitor larger rooms or hallways.

Article number	BW8000	BW8010	BW8020	BW8030	BW8040	BW8070	BW8080	BW8085	BW8090
Installation	Wall	Wall	Wall	Wall	Wall	Wall	Wall	Ceiling	Ceiling
Detection method	PIR	PIR	2 x PIR	PIR / MW	2 x PIR / MW	PIR	PIR / MW	PIR	PIR
Detection range in m	15 x 15 m					12 x 12 m		Ø 13 m	
Alarm memory	no	yes	yes	yes	yes	no	yes	no	yes
Pet-proof	no	no	no	no	no	yes, up to 30 kg	yes, up to 30 kg	no	no
Amperage	9 mA	10 mA	11 mA	13 mA	13 mA	9 mA	13 mA	15 mA	9,5 mA
Alarm contact	24 VDC, NC, 100mA	24 VDC, NC, 100 mA		24 VDC, NC, 100 mA	24 VDC, NC, 100 mA			24 VDC, NC, 500 mA	
Sabotage contact	24 VDC, NC, 100 mA							24 VDC, NC, 500 mA	
Operating temperature	-10°C to +55°C							-20°C to +55°C	
Type	Eco	Profi VdS	Duplex VdS	Duplex MW VdS	Triplex MW VdS	Pet	Pet MW	360°	360° VdS
VdS number	-	G106505	G106507	G106509	G106510	-	-	-	G105525
VSÖ number	-	GS-N060614/01E	GS-N060614/03E	GS-N060614/05E	GS-N060614/06E	-	-	-	GS-N070427/82
NCP number	-	IRF10606-P	IRF10603-P	IRF10601-P	IRF10602-P	-	-	-	-

Acoustic glass breakage detector

You can monitor large glazed facades using the acoustic glass breakage detector. The detector reacts to the specific sound of breaking glass. The best position is about two to three meters from the glazed facade. The maximum distance, depending on the type of glass, is between six and nine meters. To prevent false alarms, the detector analyzes several criteria - first, a sharp rise in amplitude when the glass is broken and then a lower amplitude, caused by the falling pieces of glass. This ensures that no everyday clattering can cause an alarm.

- Acoustic detection of breaking glass
- Monitors entire glazed facades and winter gardens
- Reliably distinguishes between bursting window panes and drinking glasses
- Detection range up to 9 meters
- Minimum size of pane: 30x30 cm
- Operating voltage: 9-12 VDC
- Amperage: 20 mA
- Dimensions (WxHxD): 50x70x25 mm

Article number	GB2000

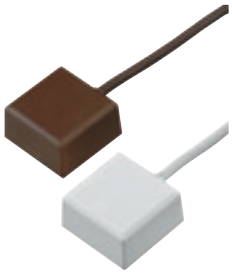
Glass breakage detector test unit

This test device simulates the sounds made by breaking glass and functionally checks your acoustic glass breakage detector. With the glass breakage test unit, you can simulate three test frequencies which represent the breaking sounds of the three most common types of glass: Single-glazed, double-glazed and safety glass. To test the acoustic glass breakage detector, its housing must be closed. The test unit has a special activation tone, which first puts the glass breakage detector in test mode. During this test mode, the alarm relay of the glass breakage detector is not activated.

- There are various test sequences for simulating the various types of glass
- The alarm relay of the detector is not activated
- Operating voltage: 9 V battery (not included in the delivery kit)
- Three test frequencies for single-glazed, double-glazed and safety glass

Article number	GB2100

Potential-free glass breakage detector

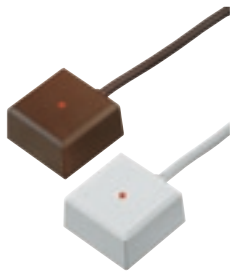


The passive glass breakage detector is fastened directly on the window pane to be secured. The ultrasonic frequencies that occur when glass is broken are detected and reported to the alarm panel. Installed in a corner of the window, the passive glass breakage detector monitors an area of up to four square meters. Its maximum monitoring radius is two meters. Thanks to intelligent Piezo technology, this glass breakage detector does not need a power supply, which makes it ideal for wireless systems. The glass breakage detector is available in white (FU7300W) and brown (FU7300B).

- No operating voltage is needed
- Ideal for use with wireless opening detectors
- Protection class: IP65
- NC alarm contact
- Connecting cable: 2 m (LIYY 2x 0.14 mm²)
- Detection range: 4 m² / 2 m radius
- Available in white or brown
- Dimensions (WxHxD): 18x18x9 mm

Article number	FU7300W	FU7300B

Glass breakage detector 12 V



These passive glass breakage detectors with LED alarm display are glued directly onto the window pane. The ultrasonic signals that occur when glass is broken are detected and an alarm is triggered. Alarm memory is integrated in the glass breakage detector. Once it is triggered, the LED illuminates. The alarm memory is reset by removing the power supply. The glass breakage detector is available in white (GB3010W) and brown (GB3010B).

- LED display with power reset
- Alarm memory function
- Detection range: 4 square meters, 2 meter radius
- Protection class: IP65
- Operating voltage: 12 VDC
- Amperage: 5 mA (normal); 17 mA (peak)
- Connecting cable: 4 m (LIYY 6x 0.14 mm²)
- Available in white or brown
- Dimensions (WxHxD): 18x18x9 mm

Article number	GB3010W	GB3010B

Seismic alarm sensor

Colour option

This innovative seismic sensor analyzes the frequencies of different impact sounds. In this way, break-in attempts involving prying, breaking through or bashing in a glass window can be reliably detected. The patented frequency analysis function detects the difference between simple knocking, external vibrations and frequencies that typically occur during attempted break-ins. This guarantees that the system is uniquely false alarm-proof. The sensitivity can be individually set. When an alarm is triggered, the built-in alarm memory LED illuminates. The sensor is fastened on the frame of a window or door or on a wall. Thanks to the wide detection range, larger window elements can also be monitored with only one sensor. Depending on the material, the detection range (diameter) is up to four meters, for bricks it is approx. 2.5 meters, steel about 3 meters; wood approx. 4 m; concrete approx. 1.5 m; dry mortarless construction approx. 2.5 m, glass 3.5 m. The vibration detector is available in white and brown.

- Voltage: 9-16 VDC
- Amperage: 15 mA
- Temperature range: -20 to +60 °C
- Adjustable sensitivity
- NC alarm relay, NC tamper switch
- Available in white or brown
- Dimensions (WxHxD): 25x85x23 mm

Article number	EM2000W	EM2000B

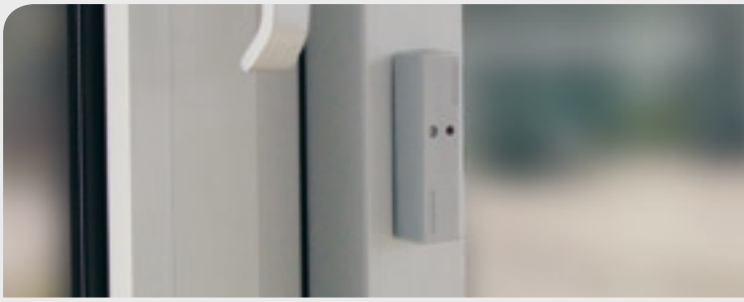
Window securing system

Glass surfaces are neuralgic points in the sheathing safety system of a building. Therefore, the use of glass breakage detectors is recommended for larger window surfaces. Three detection methods are available, which can be used according to the conditions and demands.

Various methods

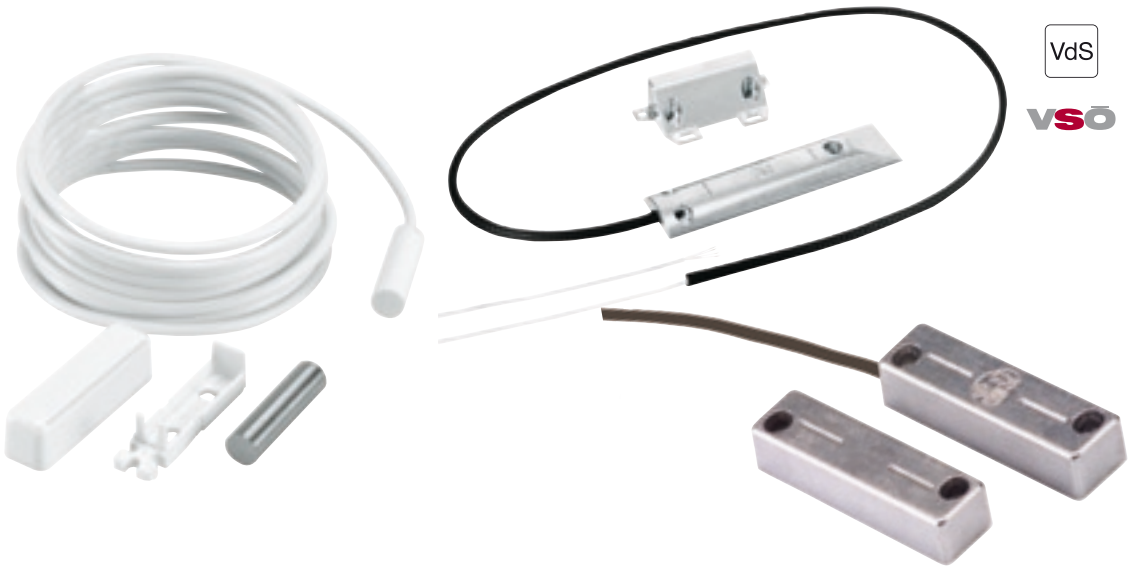
Acoustic detectors are usually mounted opposite the glass surface. They analyze acoustic frequencies and detect the noises that typically occur when glass is broken. This ensures that no everyday clattering can cause an alarm.

Passive glass breakage detectors are mounted directly on the window surface that is to be secured where they analyze the frequency and amplitude of ultrasonic signals on the window pane. The vibrations that occur when glass is broken are immediately detected and an alarm is triggered.



Vibration detectors react to impact noises and vibrations. Thus, these detectors can also detect vibrations that occur when a window or door is pried open or a wall is broken through. The patented frequency analysis prevents false alarms.

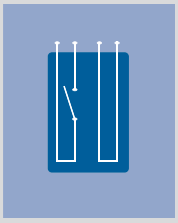
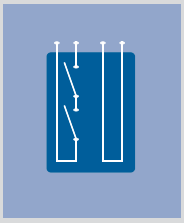
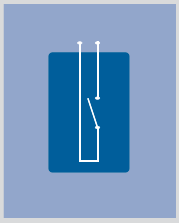
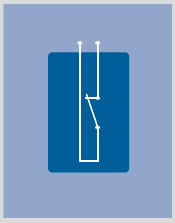
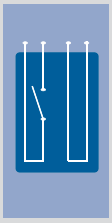
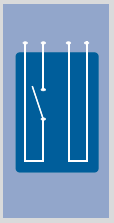
Opening detectors



Crucial to a building's electronic security system is an reliable surveillance of the building's outer skin. The most important elements are the opening detectors. They are the most commonly used alarm detectors. In addition to securing windows, doors and hatches, you can also use them to secure heavy garage doors and rolling blinds.

You have a choice here between NC or NO contacts (see diagram). The NC detector is closed at rest and only opens its contact in the event of an alarm. With the NO detector, the opposite applies: The contact is open and only closes in the event of an alarm. Various installation and configuration options are available to you depending on the realities of the door and window. Garage doors, larger doors at entrances or rolling blinds are secured with the heavy duty door opening detectors (MK4000, MK4100). The MK4200 opening detector for steel doors is recommended for installation on metal.

- For reliably building sheathing safety system
- For securing doors and windows
- Suitable for installation and configuration

Article number	**MK1010W**	**MK1010B**	**MK1310W**	**MK1310B**	**FU7350W**	**FU7350B**	**MK2000W**	**MK2000B**	**MK4000**	**MK4100**	**MK4200**
Switching contact	NC	NC	NC	NC	NC	NC	NO	NO	NC	NC	NC
Circuit diagram (during alarm)											
Cables	4 m, 4-core	4 m, 4-core	4 m, 4-core	4 m, 4-core	2 m, 2-core	2 m, 2-core	5 m, 2-core	5 m, 2-core	2 m, 4-core	2 m, 4-core	1.2 m, 4-core
Switching capacity with 24 VDC	0.2 A, 5 Watts	0.2 A, 5 Watts	0.2 A, 5 Watts	0.2 A, 5 Watts	0.2 A, 5 Watts	0.2 A, 5 Watts	0.2 A, 5 Watts	0.2 A, 5 Watts	2.25 A, 54 Watts	2.25 A, 54 Watts	1 A, 10 Watts
External field protection	no	no	yes	yes	no	no	no	no	no	yes	no
Installation	surface/ flush	surface/ flush	surface/ flush	surface/ flush	surface/ flush	surface/ flush	surface/ flush	surface/ flush	Surface	Surface	Surface
Dimensions in mm	11x12x48	11x12x48	11x12x48	11x12x48	11x12x48	11x12x48	11x12x48	11x12x48	13x230x45	13x230x45	19x80x18
VdS number	G105519	G105519	G191100	G191100					G191589	G198067	G191590

Test spray for optical smoke detector

This test spray is suitable for all photoelectric smoke detectors according to the diffused light principle.

- Suitable for: RM1000, RM0004, RM0005, RM0008, RM0011, RM0018, FU8400, FU9035
- Contents: 125 ml
- This quantity is sufficient for approx. 100 tests

Article number	RM0010

12 V optical smoke detector

EN54

Optical smoke detectors detect visible smoke particles. The integrated infrared light source generates a pulse of light at regular intervals in the optical chamber of the detector. Visible smoke particles change the signal received from a photo diode and the detector triggers an alarm.

- Detects visible smoke particles
- Self-adjusting sensitivity
- Potential-free alarm relay
- Direct connection to any alarm panel
- Voltage/output:12 VDC/30 mA
- Dimensions (HxØ): 46x100 mm
- EN54-certified

Article number	RM1000

12 V raise of heat detector

EN54

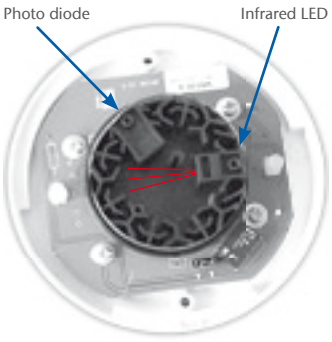
This type of detector is used to prevent the danger of a fire in smoking rooms, kitchens, garages, etc. It detects an alarm when the temperature changes, if the temperature raises more than 5 °C in three minutes or when the temperature exceeds 60 °C.

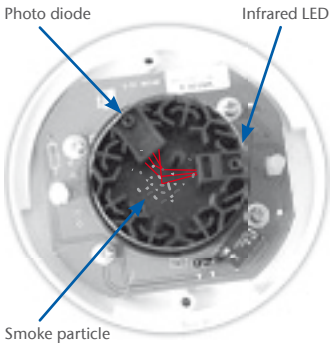
- It reacts to a maximum temperature (60°) or a raise in the temperature
- Potential-free alarm relay
- Direct connection to any alarm panel
- Voltage/current:12 VDC/30 mA
- Dimensions (HxØ): 46x100 mm
- EN54-certified

Article number	RM1100

Functional principle of an optical smoke detector

Optical smoke detectors operate according to the diffused light method. The smoke chamber of the smoke detector is illuminated by infrared LED. Clear air does not reflect this light. But if smoke particles enter the optical chamber of the smoke detector, the beam of light becomes scattered. Part of this diffused light then reaches the light-sensitive photo diode. An alarm is triggered once a defined threshold is exceeded. In the absence of smoke, the beam of light does not reach the sensor. The labyrinth of black, non-reflecting material surrounding the measuring chamber prevents outside light from entering the chamber.





Fire protection with Terxon alarm systems

A fire is breaking out every minute somewhere in Europe. With the wired smoke detectors from ABUS Security-Center in combination with the Terxon series of processor-controlled alarm panels, you have a reliable alarm system, which immediately notifies you of the danger of a fire and passes on the alarm to emergency services. Lives and property remain safe as a result.

Any alarm zone can be configured as a fire alarm zone, which sounds an alarm independently of the status of the system (armed/disarmed), as soon as a fire is detected - smoke and gases can no longer spread undetected.

Combined security: The Terxon alarm system can easily be integrated into an existing fire alarm system via alarm inputs and switching outputs.

Protective light

If you want to protect a sensitive property and make it insurmountable to intruders, rely on a combined security system. The integration of Light beams into the alarm chain makes it very versatile: Unauthorized persons and vehicles passing a light beam will immediately trigger video cameras, alarm systems or mechanical barriers. It becomes impossible to case the property for weak points. Therefore, Light beams are popular in the industrial and commercial sectors, for securing factory and warehouse bays, delivery entrances or even parking spaces.

Security options

Interior security/entrapment security

With interior security, only the inside area of a property is secured. The system primarily monitors those rooms through which the intruder will most likely pass. The entrapment security is a special form of interior security. As the name suggests, you set a trap for the intruder.

Exterior security

With exterior security, all of the access ways to the property are monitored. This includes house doors, terrace doors, cellar doors, hatches and all windows. With this type of surveillance, the alarm is triggered even before the burglar is in the house. It is possible to have surveillance while simultaneously occupying the building.

Grounds security

With grounds security the grounds around the actual building are under wide-area surveillance. The lens: The intruder should not even be able to approach the property without being detected.

Ecoline infrared light beams

The LS1020 light beam is an ideal detector for reliably monitoring smaller areas indoors and outdoors. Some classic uses of these Light beams include securing walkways, glazed facades, fences and driveways leading into parking areas. With a range of up to 20 meters, they detect every interruption of the infrared beam of light that they generate. The Ecoline light beam is dust-proof and waterproof (IP66), which makes it ideal for use outdoors. Thanks to the two NO and NC alarm contacts, the light beam can easily be integrated into any alarm system and any video surveillance system.

- Ideally suited for smaller properties
- Range up to 20 meters outdoors
- Protected against tamper
- Dust-proof and water
- Protection class: IP66
- Type of detection: Active infrared light beam (single light beam, pulsed)
- Power supply: 12 - 24 VAC / DC
- Amperage: Tx = 20 mA / Rx = 25 mA
- Response/interruption time: 100 ms
- Alarm output (Rx): Relay (NO/NC) 1A / 120V AC
- Tamper output (Tx/ Rx): NC contact 1A / 120V AC
- LED alarm indication (Tx/Rx)
- Max. intensity of extraneous light: Light source < 10000 lux/ sunlight < 30000 lux
- Operating temperature: -20 °C to 60 °C
- Dimensions (WxHxD): 46x95x34 mm

Article number	LS1020

Profiline infrared Light beams

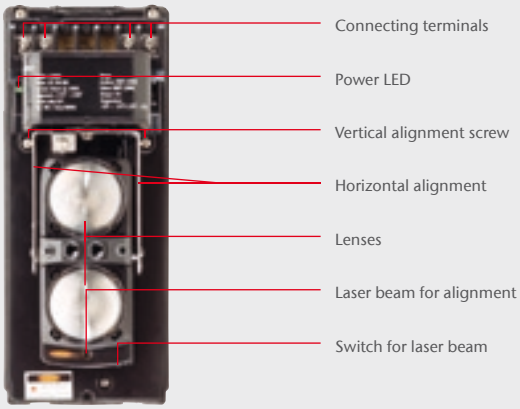
The Profiline infrared Light beams from ABUS Security-Center offer completely new possibilities for monitoring the external and internal areas Up to 120 meters outdoors and 240 meters indoors (LS2120) can be monitored. The light beam is very easy to install: The transmitter and receiver are aligned by a laser (class 3a, wavelength 650 nm, output < 5 mW), which is integrated in the housing of the transmitter even when the components are at their maximum distance from each other. It can be installed practically anywhere because the transmitter and receiver can be adjusted vertically and horizontally. With the Profiline light beam, a second pulsed infrared beam provides additional protection against false alarms. The alarm is only triggered if both beams are interrupted simultaneously. The pass-through time (sensitivity) of the light beam can be adjusted via a potentiometer.

- For reliable interior and grounds security
- Range up to 120 meters outdoors and 240 meters indoors (LS2120)
- Dual light beam
- Easy installation thanks to integrated laser
- Laser wavelength 650 nm
- Laser class 3a
- Sensitivity adjustment
- Response/interruption time: 50 - 700 ms
- Alarm output relay (NO/NC): 12 VAC / 1 A
- Tamper contact
- Power supply: 10 V - 30 VDC (without polarity)
- Power consumption Tx + Rx: 65 mA
- Max. intensity of external light sources < 10 000 lux, sunlight < 30 000 lux
- Operating temperature: -25 °C to 55 °C
- Protection class: IP55
- Dimensions (WxHxD): 173x74x72 mm

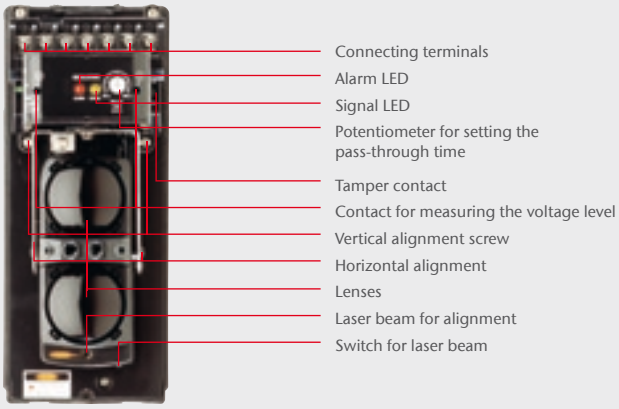
Article number	LS2030	LS2060	LS2080	LS2120
Detection range	30 m	60 m	80 m	120 m

The light beam in detail

Transmitter (Tx):

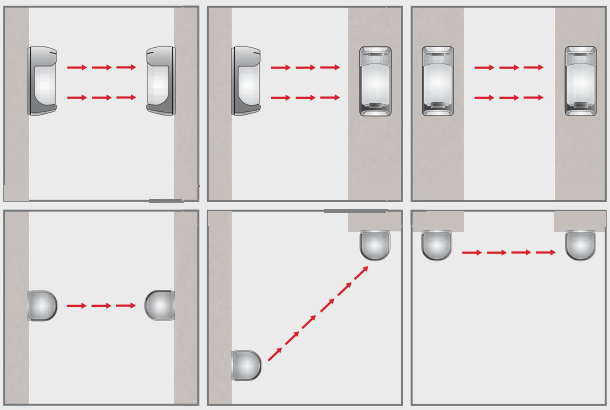


Receiver (Rx):



Easy installation of the Profiline Light beams

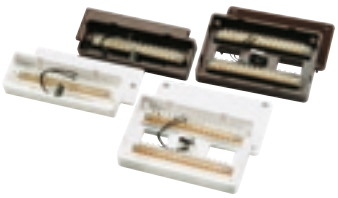
The transmitter and receiver of the Profiline light beam can be adjusted horizontally and vertically. This allows the Light beams to be installed practically anywhere. Whether on a wall, a pole or directly on the garden fence: the possibilities are almost unlimited. Aligning the transmitter and receiver is also very easy: via a laser that is integrated in the housing of the transmitter, the components can be aligned to each other even at a maximum distance.



Rotating the components horizontally by up to 90° to the left and right (a total of 180°) provides flexibility during installation.

Terminal distributor flush mount

VdS



The 16- or 32-pin flush-mounted terminal distributors are non-corroding, tin-plated soldered contacts made of shock-resistant plastic. The flush-mounted terminal distributor with a cover contact is VdS approved (class C).

- Monitored against tamper by a cover contact
- 16 (VT4000) or 32 (VT4100) tin-plated double soldered connections
- Available in two colours (white and brown)
- Cover contact with cable strain relief
- VdS class C certified
- Dimensions (WxHxD): 40x115x19 mm (VT4000); 75x115x19 mm (VT4100)

Terminal distributor surface mount

VdS

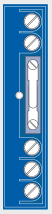
This 19-pin terminal distributor is suitable for 55 mm switch outlets. The tin-plated soldered contacts guarantee non-corroding contact capability for many years.

- 19 soldered connections with tin-plated contacts
- Monitored against tamper by a cover contact
- Plastic cover with clip for screw-type cover
- VdS class C certified

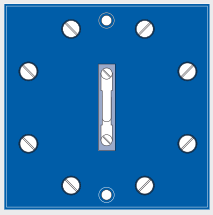
Screw terminal distributor flush mount

These high-quality 5- or 8-pin flush-mounted screw distributors consist of a shock-resistant plastic housing with a cover contact.

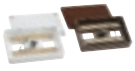
- With cover contact
- Available in two colours (white and brown)
- Dimensions (WxHxD): 24x80x18 mm (VT5000); 65x65x18 mm (VT5100)



VT5000



VT5100

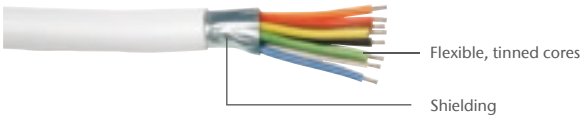


Article number	VT4000W	VT4000B	VT4100W	VT4100B	VT4200W	VT5000W	VT5000B	VT5100W	VT5100B
Installation	Flush-mounting		Flush-mounting		surface mounting	Flush-mounting		Flush-mounting	
Type of connection	Terminal		Terminal		Terminal	Screw terminal		Screw terminal	
Connections	16		32		19	5		8	
Tamper	Cover		Cover		Cover	Cover		Cover	
Dimensions (WxHxD) in mm	115x40x19 mm		115x75x19 mm			24x80x18 mm		65x65x18 mm	
VdS number	G105062		G105063		G105080				

Alarm cable

This special alarm cable ensures safe installation and wiring of burglary alarm systems.

- AZ6360 - AZ6362: 8x 0.22 mm²
  AZ6372: 4x 0.22 mm²
- High-quality processing
- Easy to strip
- Corrosion-resistant, tin-plated, flexible cores
- Shielded cables
- Available in three lengths



Article number	AZ6360	AZ6361	AZ6362	AZ6372
Cores	8-core	8-core	8-core	4-core
Length	50 m	100 m	250 m	250 m

Panic button

Integrated as a stand-alone application or into a burglar alarm system, you reliably trigger an alarm with the panic button if you need help.

- NC/NO contacts for panic alarm
- Tamper-monitored by NC/NO cover contact
- Max. switching capacity: 3A/ 75V
- Protection class: IP32
- Flush-mounting or concealed mounting
- VdS class C approved
- VSÖ certified
- Dimensions (WxHxD): 85x85x47 mm

Article number	AZ6500

Surface / flush mount key-switch

With one turn, your system is armed or disarmed: With the key-switch for flush-mounting or surface mounting.

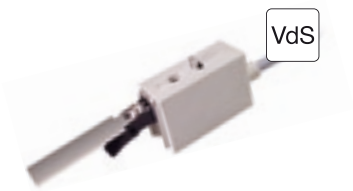
- High level of security thanks to the core extraction protection
- Tamper protection thanks to the cover and wall switch
- Two switching contacts (can be configured as switches or buttons)
- Two integrated LEDs for status display
- Load bearing capacity of contact: 30 VDC/0.5 A
- Protection class: IP55
- Provided for half-cylinders
- Fitting half-cylinder 10/30 ME1050 (not in delivery kit)
- Dimensions (WxHxD): SE1000 / SE1100 without plate: 87x117x47,5 mm; SE1100 with plate: 106x134x49.5 mm

Optional accessories:
Fitting half-cylinder in ABUS quality for use in key-switches.

- Model ABUS C83
- Adjustable lock lug
- Incl. 3 keys

Article number	SE1000	SE1100	ME1050

Bar switching contact



The VdS-certified bar-switch-contact serves as a catchmonitoring of doors.

- Housing, spring and lever arm made of stainless steel
- Micro-switch (change-over contact) with gold contact 1 mA - 2 A / 30 V
- Temperature range: -40°C to +65 °C (VdS class III)
- Relative humidity max. 95 %
- VdS no. G 186105

Delivery kit:
Bar switching contact, protective cover, fastening material

Article number	RS1000

VdS batteries 12 V

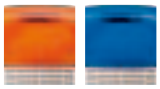
The performance capability and the compact design of these maintenance-free 12 V batteries allows them to be used in many application areas. The high degree of reliability is a particular advantage in burglar alarm systems. The use of a special calcium alloy of the highest purity increases the service life of the batteries.

Cycle stability: Depending on the average degree of depletion (discharging), more than 1000 discharging and charging cycles can be expected.

Stand-by mode: The expected service life of these batteries in stand-by mode is approx. 5 years.

Article number	BT2012	BT2020	BT2070	BT2120	BT2180	BT2240	BT2400	BT2650
Rated capacity	1.2 Ah	2.1 Ah	7 Ah	12 Ah	17 Ah	24 Ah	38 Ah	65 Ah
Rated voltage	12 V							
Dimensions (WxHxD) in mm	97x43x52 mm	177x34x60 mm	151x65x94 mm	151x98x95 mm	182x77x168 mm	177x167x125 mm	197x165x170 mm	348x167x179 mm
Weight in g	600 g	1,000 g	2,540 g	3,850 g	5,700 g	8,200 g	13,800 g	22,200 g
VdS number	G104066	G104067	G104068	G104069	G104070	G104071	G104072	G104073

Profiline sounders



Colour options

This professional sounder is the critical link in a completely functioning alarm chain. In the event of an alarm, this extremely powerful sounder generates a very loud tone with more than 117 dB of acoustic pressure - this is almost twice as loud as comparable devices! The duration of the alarm can be programmed. In addition to the acoustic alarm there is a visual alarm in the form of a bright, flash light which is visible from far off. It is possible to control the siren and the flash light separately. Depending on the model, the flash light are available in red, yellow and blue. This means that the flash light can continue to flash until the alarm system is manually reset, while the acoustic alarm ends after a predetermined period of time. Other setting variants are possible via the jumper and DIP switches. The sounder is protected against tamper via a cover and tamper-proof seal contact. The sounder meets EN requirements and has space for a fitting 2.1 Ah battery. This allows you to achieve autonomous operation, independent from the power grid and the panel. The advantage: In the event of an alarm situation, the alarm cannot be prevented by tampered cables and the panel cannot be overloaded due to service peaks. Reliable triggering of the alarm is guaranteed under any circumstances.

- Flash frequency: 1 Hz
- Tamper monitoring
- Wall and cover contact
- Volume: 117 dB(A) at 1 m
- Space for 12 V/2.1 Ah battery (not in delivery kit)
- required power supply: 13.8 VDC, 200 mA (with battery), 1.6 A (without battery)
- Operating temperature: -25 °C to +70 °C
- Certifications: VSÖ, Incert, EN
- Weight: 2,000 g (without batteries)
- Dimensions (WxHxD): 220x300x91 mm

Required accessories:
12 V VdS battery 2.1 Ah (BT2020)

Article number	**SG1800**	**SG1805**	**SG1810**
Degree of protection	IP43	IP43	IP43
Volume	117 dB	117 dB	117 dB
Required emergency power battery	Battery 12 V / 2.1 Ah (BT2020)		
Temperature range	-25 to +70 °C		
Certifications	VSÖ, Incert		
Anti-sabotage monitoring	Wall/cover		
Light colour	Red	Orange	Blue
Type of light	LED	LED	LED
Flash frequency	1 Hz	1 Hz	1 Hz
Dimensions in mm	220x300x91		
Operating voltage	12 VDC		
Amperage (in the event of an alarm)	200 mA (with battery), 1.6 A (without battery)		
Power consumption	7.2 W		

Siren and flash dummy

The non-functioning siren (with flash) is the most cost-effective form of building security.

- Original housing
- Cannot be distinguished from functioning sounders
- Colour: Housing: white, flashing light: red

Article number	**SG3210**

Ecoline compact alarm system

This alarm generator was specially developed for securing private and commercial properties. The alarm generator has a flat aluminum housing with an integrated, loud siren and optional flashing light. The high degree of anti-manipulation security is achieved by means of an additional inner grate, a wall tamper-proof contact and a cover contact. You can install this siren indoors or outdoors.

- The anti-sabotage alarm sounds when the seal is broken and opened
- Flash power: approx. 2 Ws / flash frequency: 1.17 Hz
- Protection class: IP34
- Acoustic pressure: 110 dB
- Operating voltage: 12 VDC
- Amperage in the event of an alarm Flashing light 350 mA, siren 410 mA
- Operating temperature: -25° C to + 55° C
- Dimensions (WxHxD): Siren and flash 190x300x115 mm, siren 190x210x115 mm

Inside siren

This alarm siren is an acoustic signal generator. Here you have a choice of two alarm modes: A 110 dB alarm tone and a 90 dB acknowledgement tone. Both signals are perceived to be extremely loud due to the high acoustic pressure and the signal frequency. You can use the remotely controllable LED of the alarm siren to determine the status of the alarm center (armed/disarmed).

- Operating voltage: 12 VDC (300 mA)
- Monitored against sabotage
- Protection class: IP54
- Acoustic pressure: 110 dB
- Operating temperature: -10° C to + 50° C
- Dimensions (WxHxD): 100x155x48 mm

Flashing light and siren

Colour options

In the event of an alarm, the siren generates a tone at intervals with more than 100 dB of acoustic pressure. In addition to the acoustic security system, there is also an optical alarm in the form of a coloured flashing light. It is possible to control the siren and the flashing light separately. The rugged plastic housing (IP54) of the combination detector offers protection against environmental influences and allows it to be installed in covered outside areas.

- Loud Piezo signal generator
- Protection class: IP 54
- Acoustic pressure: 100 dB
- Operating voltage: 12 VDC (200 mA)
- Operating temperature: -10° C to + 50° C
- Dimensions (WxHxD): 73x122x43 mm

Xenon flashing light

Colour options

The Xenon flashing light can also be used outdoors, where they give off bright light and a powerful flash.

- Type of light: Xenon
- Protected against splashing water (protection class): IP54)
- Incl. adapter for flush-mounting
- Available in red, yellow and blue
- Operating voltage: 12 VDC (350 mA)
- Temperature range -25 to +55°C flash frequency: 1.17 Hz
- Dimensions (WxHxD): 175 x 110 x 75 mm

Article number	**SG1660**	**SG1650**	**SG1250**	**SG1681**	**SG1682**	**SG1683**	**SG1670**	**SG1675**	**SG1680**
Degree of protection	IP34	IP34	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Volume	110 dB	110 dB	110 dB	100 dB	100 dB	100 dB			
Temperature range	-25 to +55 °C		-10 to +50 °C				-25 to +55 °C		
Anti-sabotage monitoring	Wall/cover	Wall/cover	Wall/cover						
Light colour		Red		Red	Yellow	Blue	Red	Yellow	Blue
Type of light		XENON		LED	LED	LED	XENON	XENON	XENON
Flash frequency		1.17Hz		2 Hz	2 Hz	2 Hz	1.17Hz	1.17Hz	1.17Hz
Dimensions in mm	190x210x115	190x310x115	155x100x48	122x73x43			175x110x75		
Operating voltage	12 VDC								
Amperage	340 mA	760 mA	300 mA	200 mA	200 mA	200 mA	350 mA	350 mA	350 mA
Power consumption	4.1 W	9 W	3.6 W	2.4 W	2.4 W	2.4 W	4.2 W	4.2 W	4.2 W

Dialers

The perfect silent alarm system: „Silent“ alarms leave the intruder with a false sense of security while the security forces are already on their way.

PSTN dialer

GSM dialer

GSM interface

	PSTN dialer	GSM dialer	GSM interface
Programmable telephone numbers	4	10	8
Inputs	4	8	4
Transmission path	PSTN	PSTN, GSM	PSTN, GSM
Type of transmission	Voice	Voice, SMS	Voice (in connection with the speech module), SMS, digital protocols
The following are transmitted:	1 Location message, 4 Alarm messages (e.g. burglary, fire, robbery, fault)	2 Location message (1 voice, 1 SMS), 2 alarm messages (1 voice, 1 SMS), 16 reset messages (8 voice, 8 SMS)	4 alarm messages (SMS), 4 reset messages (SMS), systemmessages (sabotage, mains fault, etc.), 4 voice messages (in connection with speech module)
Purpose	Transmitting alarm messages as voice text via PSTN	Transmitting alarm messages as voice text via PSTN or GSM	Redundant transmission (in the event of PSTN failure); Simulation of a PSTN connection (digital protocols of the alarm center are thustransmitted via GSM)
Outputs	1 (Transistor 100 mA)	4 (4x transistors 100 mA)	4 (1x relay 3 A, 3x transistors 100 mA)
Output switches during	system events that are to be defined (e.g. successful transmission, transmission fault, etc.)	Telephone call; system events that are to bedefined	SMS, telephone call, upon activation of the input, system events that are to be defined

PSTN dialer

Help from a call: Silent alarm via telephone (PSTN)

The PSTN dialer sends previously recorded voice messages to up to four saved telephone numbers via an analog telephone connection. Four different messages can be saved - one per relevant event (e.g. burglary, fire, robbery, fault).

▶ page 153

GSM dialer

Flexible alarm system: Voice message and SMS via PSTN and GSM

The ultimate freedom of choice: With the GSM dialer, voice messages and SMS messages are sent to up to ten telephone numbers. This can be done via landline or mobile wireless. Remote access (call) to the dialer can also be done from mobile terminals.

▶ page 154

GSM interface

Digital protocols via mobile wireless: Message in the language spoken by the rescuer

A landline connection is simulated via the GSM interface. When the regular landline connection fails, the digital control center protocols of the alarm center are transmitted via the GSM network. This gives you a redundant connection. It is also possible to transmit voice messages or SMS via the GSM interface. Remote access is also possible.

▶ Page 155

Terxon PSTN dialer

With the Terxon PSTN dialer, alarm and system messages are passed on to up to four telephone numbers saved by you in the front field. In the event of an alarm, the analog speech dialer transmits two pieces of information: an identification text and an event text. The identification text conveys general information (name, address), the event text conveys events defined by you (burglary, fire, medical emergency, system fault, etc.). You can record and save four event texts. The texts have a total duration of 40 seconds. The analog speech dialer is installed between the alarm system and telephone cable. It has four inputs, which activate the provided event text in the event of an alarm. The call numbers are automatically dialed by the speech dialer. Thus, you can be certain that the receivers are reliably notified. The dialer is programmed via a menu-driven LCD display. The analog speech dialer is approved throughout Europe and matches the Terxon alarm center in terms of its elegant design.

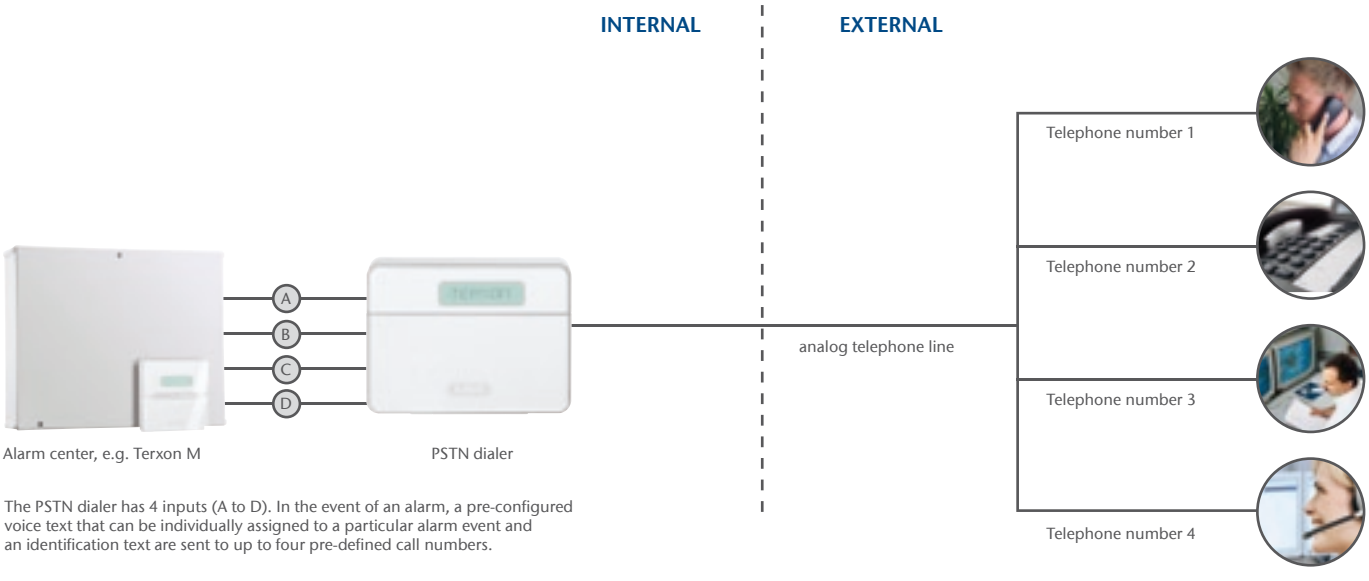
- up to four voice messages are possible
- Duration of voice message: max. 40 seconds (total)
- four alarm inputs
- Alarm repetition: yes
- remote acknowledgement: yes
- Post approval: Europe-wide
- Amperage: max. 70 mA
- Operating voltage: 11.5 to 14 VDC
- Dimensions (WxHxD): 150x104x30 mm

Optional accessories:
Suitable 12 V power supply unit (FU3822)

Article number	AZ6301

Alarm with valuable information

Complete your silent alarm with the multi-faceted dialers from ABUS Security-Center, which simultaneous give the triggered alarm valuable information Be-cause you can individually confi-gure the automatically sent voice texts and assign them to a parti-cular alarm event. This allows the informed parties to immediate know what has happened and to prepare accordingly. Even when no analog telephone connection is available, a silent alarm is pos-sible via mobile wireless using the GSM interface.



Alarm center, e.g. Terxon M

PSTN dialer

The PSTN dialer has 4 inputs (A to D). In the event of an alarm, a pre-configured voice text that can be individually assigned to a particular alarm event and an identification text are sent to up to four pre-defined call numbers.

How to program the Terxon dialer

The Terxon dialers are programmed with the aid of the telephone keys and the LCD display. The best method is to perform the following steps:

Define the access code
To operate the speech dialer, you must enter a predefined access code. You should change this code after the first start-up.

Record voice texts
Record eight (AZ6302) or four (AZ6301) voice messages. Each voice message is assigned to a specific event (fire, robbery, sabotage, etc.). In addition to the voice texts, also record the identification text (name, address). This will then be played back in the event of an alarm message.

Enter the telephone number
Now enter ten (AZ6302) or four (AZ6301) message recipients and their telephone numbers. These numbers can be called in the event of an alarm.

Assign the numbers to the texts
Decide which of these recipients will be called for each of the eight or four voice messages in the event of an alarm.

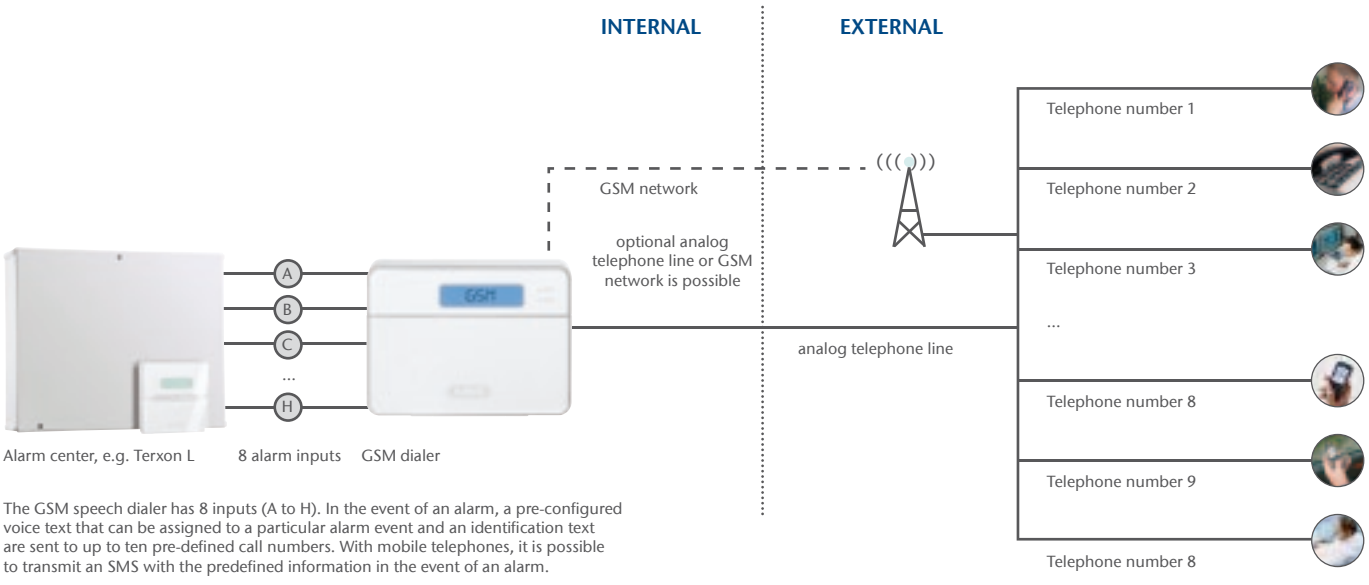
Terxon GSM dialer

The new GSM dialer from ABUS Security-Center transmits alarm and system messages in the form of voice messages or SMS messages via analog telephone lines or the mobile wireless network. This allows redundant transmission (GSM transmission, if PSTN line is faulted) and the communication of the alarm system with the outside world even to locations where no landline is available. You can save up to eight receivers for the messages. In the event of an alarm, the dialer transmits an identification text and an event text (SMS or voice). With the identification text, you convey general information (name, address), with the event text you convey the alarm messages (burglary, fire, medical emergency, system fault, etc.). You save eight event texts, the location message and eight reset messages with a length of 30 seconds each (or 40 characters). The room temperature is continuously displayed on the standby display by means of the integrated temperature sensor and the resulting temperature values allow the switching of outputs beyond the minimum or maximum temperature. In addition, four outputs can be switched via the speech dialer. This can be assigned to specific events or manually (remotely) started. You can also listen in to your property (or talk in) via the listening and talking mode during a call on the dialer.

- 8 positive/negative controllable inputs (5 - 24 VDC)
- 4 transistor outputs (OP), negatively switching, max. current output 100 mA / 12 VDC per output
- 8 voice messages are possible
- Recording length: 30 seconds or 40 characters per message
- integrated temperature sensor
- Power supply: 10.5 - 28 VDC
- Amperage stand-by: 50 mA / 12 VDC / in operation: 170 mA / 12 VDC
- Operating temperature: -10° C to +55° C
- Weight: 360 g
- Dimensions (WxHxD): 150x115x30 mm

Optional accessories:
Suitable 12 V power supply unit (FU3822)

Article number	AZ6302



The GSM speech dialer has 8 inputs (A to H). In the event of an alarm, a pre-configured voice text that can be assigned to a particular alarm event and an identification text are sent to up to ten pre-defined call numbers. With mobile telephones, it is possible to transmit an SMS with the predefined information in the event of an alarm.

GSM interface

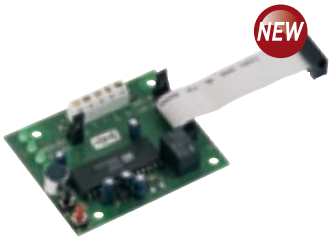
The GSM interface transmits alarm and system messages via SMS or voice (in combination with the speech module) to up to eight different telephone numbers. The GSM interface also simulates an analog landline connection. When the landline connection fails, the digital control center protocols of the Terxon alarm center (CID, SIA) are then transmitted via the GSM network. Thus, you have a second transmission path for control center protocols at your disposal via the GSM interface. In addition to four alarm inputs, the GSM interface has four switching outputs for external consumers (e.g. illumination, heating, signal generators). You can also activate these remotely via SMS or a telephone call. You can conveniently program the settings on the GSM interface via software on the PC.

- 4 alarm inputs
- 4 alarm outputs (1 relay + 3 transistors) for connecting additional devices
- 8 contact call numbers
- Monitored PSTN connection
- Connection for analog terminals
- Integr. quad band GSM module
- Sabotage switch
- 8 SMS texts
- 8 call numbers per alarm input
- Operating voltage: 14.4 VDC / 800 mA (integrated 230 V power supply unit)
- Space for 12 V/1.2 Ah emergency battery (not included)
- Incl. programming cable
- Incl. configuration software
- Dimensions (WxHxD): 185x275x65 mm, with antenna: 185x335x65 mm

Optional accessories:
12 V/1.2 Ah emergency battery (BT2012)

Article number	AZ6450

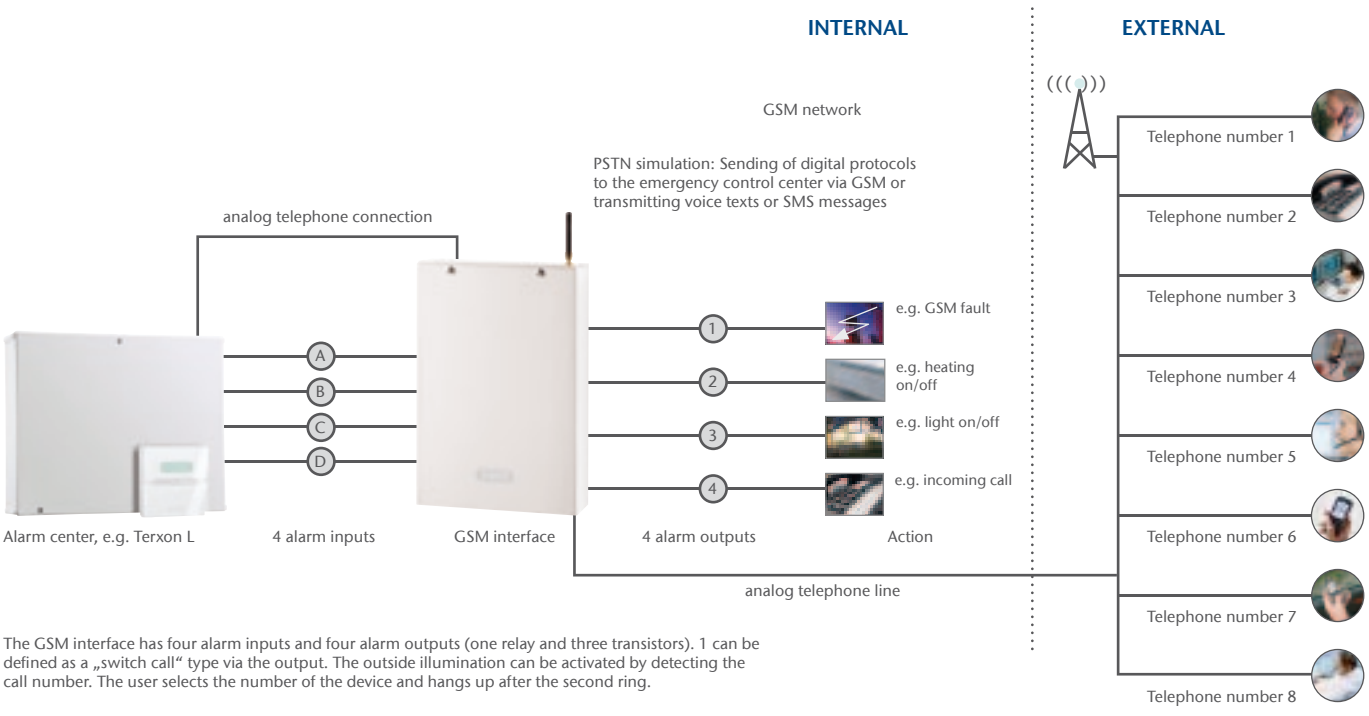
Speech module



Expand the GSM interface with the speech module and you can also record and send up to four voice texts with a duration of ten seconds each in addition to sending SMS and digital protocols. In addition to controlling the inputs of the GSM interface, the voice messages can also be assigned to events such as sabotage, loss of telephone line or power or low battery charge.

Article number	AZ6451

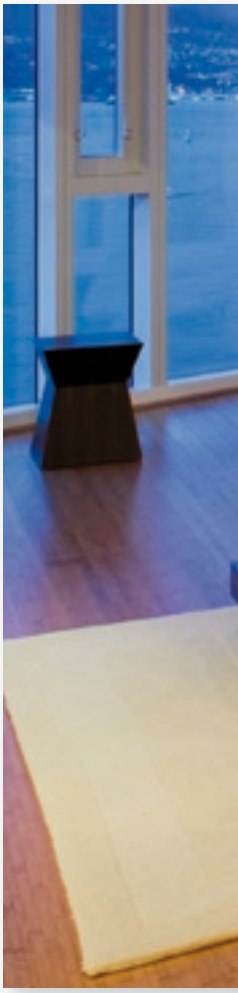
The comprehensive functionalities of the GSM interface at a glance:



The GSM interface has four alarm inputs and four alarm outputs (one relay and three transistors). 1 can be defined as a „switch call“ type via the output. The outside illumination can be activated by detecting the call number. The user selects the number of the device and hangs up after the second ring.

Home alarm and HomeTec

For protecting your home: Ideal protection against everyday dangers. Quality of life at the push of a button: Thanks to the key-free opening of the entry doors.



HomeTec wireless remote control

Open Sesame! Convenient pushbutton operation

You can remotely open your house doors just as you do with your car. Without having to look for your key or struggling to find the key-hole - this makes things much easier at night and in inclement weather! Luxury that is practical: The wireless door control automatically opens the door - ideal for heavy doors or if you are carrying heavy bags.

▶ **starting on page 160**

HomeTec wireless keypad

Get into your house easily: Entirely without a key

Never find yourself locked out again - even if you don't have a key or a remote control, you can still get into your house easily: by entering your PIN code, which you will always have in your head. Even when the residents outnumber the keys or remotes (up to nine): Every resident can get into the house using the PIN code.

▶ **page 161**

Installing the HomeTec

Wireless door control perfectly installed: Easy and quick enough for a child to do

HomeTec turns any conventional door lock into an automatic wireless lock - without any major conversion work or mess. The installation is trouble-free: The wireless door control is easy to put on the existing lock cylinder - and you are finished. And now the door opens and closes via a wireless signal.

▶ **starting on page 160**

Wireless smoke detector

Seamless security throughout the entire building: Thanks to the linked alarm

Maximum advance warning time and the best protection for your body, life and property - thanks to wireless smoke detectors. In serious situations, every detector in the house will immediately sound the alarm. Regardless of where the fire is located. This prevents smoke, flames and smoke from spreading without being noticed.

▶ page 159

Home smoke detector

Save lives in your own home: With a 95% success rate

Surprised while sleeping: 95% of all victims of fires don't die from the fire but from the poisonous gases it generates. Smoke detectors warn residents of this fatal danger. Already a proven lifesaver many times over outside of Germany, six German federal states also require smoke detectors in new residential buildings.

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Home flood detector

Advance warning: Responding before the damage occurs

A break in a water pipe can cause stress and financial strain on owners and tenants: Wet walls and floors, broken systems, destroyed equipment, etc. Even a minor defect such as a hose or a valve can get expensive - first the moisture, then mildew, often followed by a clean-up! The best protection: Reliable flood detectors!

▶ page 159

ABUS home smoke detector

VdS

Screw the detector onto the ceiling and install the battery. Voila! This is how quickly you can save lives with a home smoke detector.

- Integrated, powerful Piezo siren
- Control LED for function monitoring
- Function test button for manual self-test
- Low battery alarm
- GS-tested (RM0004 and RM0005), VdS-certified (G 204022)
- Incl. 9V lithium or alkaline battery
- Battery lifespan: Up to 10 years (lithium) or 5 years (alkaline)
- Also available in a price attraction set of 3
- Dimensions (HxØ): 33x100 mm

Optional accessories:
ABUS test spray (RM0010)

Article number	RM0004	RM0005	RM0008	RM0018
Quantity	1	set of 3	1	set of 3
Battery type	Alkaline	Alkaline	Lithium	Lithium
Certifications	VdS, GS	VdS, GS	VdS	VdS

Test spray for optical smoke detectors

This test spray is suitable for all photoelectric smoke detectors according to the diffused light principle.

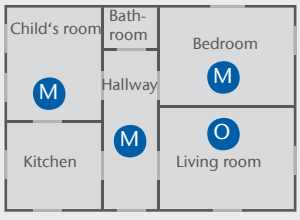
- Suitable for: RM1000, RM0004, RM0008, RM0011, FU8340, FU9035
- Contents: 125 ml
- Good for about 100 tests

Article number	RM0010

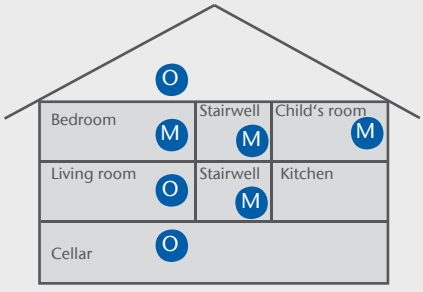
In this way, you achieve minimum and maximum protection

Fire protection officers and fire-fighters recommend a minimum of one smoke detector on each floor. The detector should be centrally installed. The ideal installation location is on the ceiling in the middle of the room. Note that one detector covers an area of approx. 40 m². One smoke detector per room is the ideal. Optical smoke detectors should not be used in kitchens or bathrooms due to frequent exposure to steam.

It is especially important to protect bedrooms, children's rooms and rooms with electrical devices.



3-room apartment



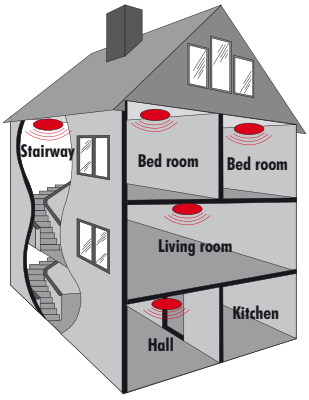
Multi-story house

M Minimum protection

O Ideal protection

ABUS wireless smoke detector

VdS



Don‘t compromise when it comes to your safety! Put your trust in VdS-tested wireless smoke detectors from ABUS. These smoke detectors can be linked to each other without additional wireless modules or receiving centers. The optical measuring chamber, evaluation electronics, the 85 dBA siren, the 9V battery and the wireless transmitter/receiver are all housed in the small enclosure (only 100x33 mm). To ensure that no nearby wireless smoke detectors can interfere with the system, the detectors only communicate with each other using (settable) harmonized codes. If a detector detects smoke, a loud alarm sounds. All of the other smoke detectors with the same code are also activated. The device that was the first to detect the alarm can be easily located by its different alarm tone and flashing frequency. As an added safety bonus, these wireless smoke detectors also provide daily self-calibration. This prevents false alarms caused by dust, fog, etc.

- Frequency: 434.3 MHz
- Range up to 100 m
- Dimensions (ØxT): 100x33 mm
- Colour: Pure white
- Including 9 V lithium battery (lifespan up to 5 years)
- Not compatible with Secvest 2WAY
- VdS no. G 203075

Optional accessories:
ABUS test spray (RM0010)

Article number	RM0011

ABUS flood detector

The ABUS flood is a technical detector. It reacts to water and other liquids. As soon as the detector‘s sensors come into contact with water, it sounds the alarm via an integrated siren. This allows damage caused by broken pipes or burst water hoses from washing machines to be detected so that quick action can be taken to prevent the damage.

- Warns reliably to prevent water damage
- Power supply via 9 V battery (in the delivery kit)
- Volume: 85 dB(A) at 1 m
- The alarm is stopped by removing the detector and drying the alarm contacts
- Three alarm contacts per detector
- Dimensions (ØxD): 90x30 mm

Delivery kit:
Water detector, 9 V battery

Article number	WM0003

Tips for using optical smoke detectors

Smoke detectors are installed on the ceiling in the middle of the room Depending on the detector, the range is approx. 40m².

The following generally applies: A minimum of one smoke detector per hallway and floor. The living room and bedrooms should also be protected.

Optical smoke detectors detect smoke. They are not suitable for fires that generate very little smoke.

Dust from a workshop or garage and steam from a bathroom or kitchen can fill the smoke chamber and lead to false alarms. The proper type of detector in this case is a heat detector or raise of heat detector, which trigger an alarm above a certain temperature (e.g.: 60°) or a certain rise in temperature (e.g.: 5° in three minutes).

Draughts from open windows, air shafts and fans can prevent the smoke from reaching the optical chamber of the detector. In this case, the detector will not trigger the alarm.

Optical smoke detectors must not be installed at the highest point in a building with a pointed roof. The reason for this is: The warm air that rises from the rooms will form a warm cushion of air and the smoke will not reach the detector.

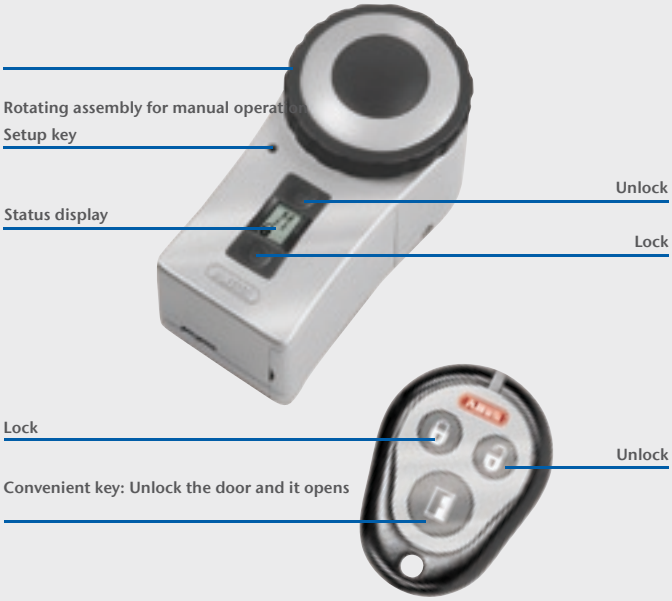
Customer benefits at a glance

- More convenience when carrying objects, on cold days or in darkness
- No more „fumbling“ for your key
- Forgot your key? No problem, because you always have the code with you in your head! (wireless keypad required)
- Personal access control system with a wireless keypad: So you will always know who is entering or leaving your building
- The highest level of security thanks to the changing code system with more than 17 trillion possible combinations
- Easy to install and operate

HomeTec from ABUS!

Do you still operate the controls on your TV? Do you still lock your car with a key? Wireless technology has made many aspects of our daily life easier and now this level of convenience also exists for your house: The entrance door opens fully automatically at the push of a button! This is the ultimate in convenient access and it has practical advantages when you are carrying heavy objects, in strong winds or bad weather, or if you just want to be welcomed by your house with open arms.

And you don‘t have to go without the highest level of security. Thanks to the rolling code, the wireless signals cannot be reproduced. This ensures that only authorized persons have access.



HomeTec (wireless door control + 1 wireless remote control)

Colour options

Open Sesame! With the wireless door control, your doors will easily and conveniently open like magic, at the push of a button. The door control is easy to install and fits nearly all lock cylinders.

- Control via remote control or wireless keypad
- Reserved security frequency 868.35 MHz
- Changing code system with more than 17 trillion possible combinations
- Available in white, brown, silver and gold
- Power supply: 4.5 V / 3 x LR 06/ AA batteries in the delivery kit
- Test rating of „good“ from the German association for gerontological technology
- Dimensions (WxHxD): 62x120x57 mm

Article number	HT1000W	HT1000B	HT1000S	HT1000G
Colors	White	Brown	Silver	Gold

Wireless keypad

Forgot your key? No problem. With the wireless keypad, you don't need a key. You just open the door by entering a PIN code which you always carry with you in your head! At the same time, you have a professional access control system with an evaluation function and many other features.

- Access control system for up to 20 users, and a total of 102 settable access times
- Party function: A push of a button opens the door
- History function: The last 39 commands are saved
- Replaces the doorbell: Control of a wireless gong or connection to existing doorbell system
- Test rating of „good" from the German association for gerontological technology
- Power supply: 6 V / 4 x LR 06/ AA batteries. Included in the delivery kit
- Dimensions (WxHxD): 78x138x53 mm

Article number	HT1100W	HT1100S
Colors	White	Silver

And this is how it works:

You come home: Option 1 - You open the door from a distance with your remote control. A huge advantage if you are carrying heavy objects. The alternative is to enter the PIN code on the wireless keypad. You are in the house and you want to lock it up: Just press the button on the wireless door control.

That is how easy ABUS HomeTec is installed:

Plugging on.

The wireless door control is easily plugged on the door cylinder from the inside - without bore-holes or cabling.

Securing.

The door control is secured on the cylinder on the inside of the door by means of two screws.

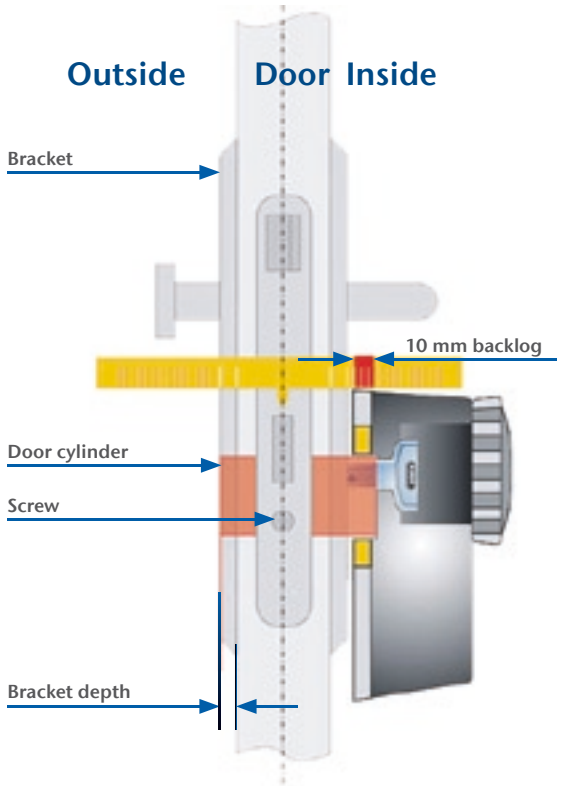
And you are finished.

The power supply is provided by a battery - therefore, no connection to the mains is required. Changing the battery is usually only necessary after 1 year. The device indicates this in advance.

More convenience for your doors

With the wireless remote control of the HomeTec, you can open your doors without any problems. This can also be used from large families: Up to nine wireless remote controls can be read in and used with the HomeTec.

This is the way your cylinder should fit



The wireless door control is installed directly on the lock cylinder and moves it via the inserted key. For this reason, the lock cylinder must have an overhang of approx. 10 mm beyond the inner bracket. If this does not apply with your existing cylinder, then you need a new lock cylinder (see profile cylinder with emergency and danger function, ME2700-ME2703). This is how you determine the correct length: Measure the outer and inner dimension and add the 10 mm overhang to the inner dimension. This also applies to existing brackets and collars.

Only use HomeTec with a door cylinder that has an emergency and danger function!

Measuring the door cylinder

Measuring your door cylinder to determine the correct type has never been easier! Just insert the measuring gage into the lock like a cylinder. Simply request the practical measuring help (ME2750) at no cost from ABUS Security-Center.

Wireless remote control

Opening and locking doors has never been easier! With the wireless remote control, you can unlock and lock a door or open it just by pushing a button or by using the Comfort key. This lets you enter your home even when your hands are full.

- Range up to 100 m
- Just hang it on your keychain
- Up to 9 remote controls can be used
- Power supply: 3 V / 1 x CR 2016
- The battery is included in the delivery kit
- Dimensions (WxHxD): 40x50x9 mm

Article number	HT1200

Emergency cylinder

Doesn't your door lock cylinder have an overhang of 10 mm? No problem. With the ABUS emergency cylinders you are on the safe side. Measure the required length of the cylinder (outer and inner dimension + 10 mm) and order the right cylinder at the same time!

- Keyed operation of the lock is possible even when a key is already inserted in the opposite end of the cylinder, allowing access at all times
- Mushroom counter pins: Effective resistance against picking and manipulation
- Paracentric key profile
- Wear-free materials
- Delivered with 3 keys

Article number	ME2700	ME2701	ME2703
Dimensions	30/40	30/45	35/50

Other lengths available upon request

LED

This LED is installed outside on the door or inside on the pane of glass. This allows you to always have the status of the entire system at your fingertips. Thus, a brief flash indicates „wireless command received" and regular flashing indicates that the door control is running. This diode makes operating the HomeTec system a truly comfortable experience.

- Connection to the comfort wireless door control
- 30 cm cable included
- Incl. adhesive pads and securing screws

Article number	HT1300

Wireless bell

Do you hear the doorbell? The wireless bell quickly announces visitors who use the wireless keypad. A special advantage for home owners: The range of up to 100 meters is outstanding.

- Triggered by the wireless keypad
- Distance: up to 100 m
- Power supply: 2x batteries LR14/ Baby/C in the delivery kit
- Dimensions (WxHxD): 140x133x47 mm

Article number	HT1400

ABUS Secvest 2WAY

The first wireless alarm system that actively prevents break-ins.

More design, more technology, more security.

- Active all-round protection, no matter what happens: burglary, fire, water and emergencies
- Bi-directional functionality: Maximum operating convenience thanks to 2-way wireless
- A world innovation, the FTS 96 E! The wireless alarm system with active security components
- Elegant and informative: The innovative backlight for the status display
- 48 wireless and 2 wired zones will help you overcome huge challenges
- 36 month warranty, can be extended to 48 months

You can find additional information on page 108.

ABUS - The good feeling of security *www.abus-sc.com*

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